The Mining Journal RAILWAY AND COMMERCIAL GAZETTE.

PORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 790.---Vol. XX.]

LONDON, SATURDAY, OCTOBER 12, 1850.

PRICE 6D.

SOUTH FORTUNE MINE.

TO BE SOLD, by PUBLIC AUCTION, on Tuesday, the 15th isst, by Two o'clock in the afternoon, at the account-house, SOUTH WHEAL FORTUNE COPPER MINE, situated in the parishes of BREAGE and SITHNEY, near HELSTON, CORNWALL, together with the MATERIALS, consisting of a 22-inch CYLINDER PUMPING-ENGINE, s-feet stroke (on Bull's principle), 70 fathoms of pit-work complete, capstans, shears, horse-whims, with every other material required for a mine in full work; together with the SETT, of which about 17 years of the term remain unexpired, at a 1-18th dish.

expired, at a 1-18th dish.
The mine is now in full course of working, and may be inspected by applying to Capt.
W. Martyn; or to Mr. Thomas Martyn, the purser, Breage, Helston.
South Wheal Fortune, October 1, 1850.

TAW VALE RAILWAY.—IMPORTANT SALE

MR. G. HEARSON respectfully announces, that he is instructed by Mr. Thorne, late contractor for the works on the above railway, to OFFER for SALE BY AUCTION, at the Railway Station, Barnstaple, on Wednesday, October 30th, and two following days, ALL THE MATERIALS that have been provided for the completion of the contract, and the PLANT now on the line, the whole of which must be sold without reserve, the Taw Vale Railway board having directed the same to be removed mathematically.

without reserve, the Taw Vale Railway board having directed the same to be removed forthwith.

The MATERIALS comprise about 6000 cubic feet of payanised memel timber, the greater part of which is in lengths of from 40 to 60 feet, carefully selected at Southampton and other ports for the permanent girders of the river bridges; 3600 feet of 3-inch memel plank; 2000 feet of yellow pine timber; 1300 feet of plank, of various sizes; 1300 payanised railway sleepers, 9 feet long, 10 by 44; 1500 feet of oak, elm, and ash timber; 10 tons of new bar iron, of various sizes; 1 tons of waggon and scrap live; 1300 better, 30, tons of larch poles; 2000 feet of ashlar stone; 600 yards of building stones, &c., &c.

The PLANT comprises a locomotive engine and tender, by Chapman, very little worn.

Particulars as follows:—inside cylinder, 14-inch diameter, and 18-inch stroke; driving wheels, 4-feet diameter, it cading and trailing wheels, 4-feet; strong copper fire-box, nearly new; and 111 tubes, 74 feet long; outside diameter, 2-inch. The tender is constructed to hold 600 gallons. Wheels, 4-feet diameter, 2-inch. The tender is constructed to hold 600 gallons. Wheels, 4-feet diameter, 2-inch lifting lack; 210 tons of contractors rails, 41 lbs. to the yard; 130 earth waggons; 40 sets of horse harness; 2 timber waggons, with gins; 120 new picks, 80 shovels and grafting tools; smith's bellows, and tools for four workshops; 5 pile engines, complete; a travelling crane, equal to 5 tons; acveral brass lifting pumps, with pipe; 3 lead pumps and pipe; 1 iron pump, and iron pipes of various sizes; a large quantity of gas fittings; 5 mortar mills; lifting jacks; boring tools; barrows; about 3000 temporary sleepers, and various other articles.

The whole of the above will be particularised in catalogues, which may be had gratis of the auctioneer, Litchdon-street, Barnataple, one week previous to the sale.

Approved bills will be taken at three months for all purchases above £30; and at six souths for purchases above £00.

Each day's sale to

DEAN FOREST .- VALUABLE COAL AND IRON WORKS.

DEAN FOREST.—VALUABLE COAL AND IRUS WORKER.

Affording an opportunity seldom offered for acquiring a laterative and first-rate concern.

MESSRS. ADAM MURRAY & SON are instructed to SELL,

BY AUCTION, at the King's Head. NEWPORT, MONMOUTHSHIRE, on Saturday, the 16th day of November next, at Trelve o'clock, at none (unless an acceptable offer be previously made), ALL THE IRON AND COAL WORKS, situate at BREAM,
in the hundred of ST. BRIAVELS, GLOUCESTERSHIRE, now in the occupation of the
BROMLEY HILL IRON AND COAL COMPANY.

The COAL-WORKS comprise two gales of the WHITTINGTON OR YARD DELF
VEIN OF COAL, known as the Bromley Hill level, and the Midsummer level, amounting to 300 acres, subject to a Reyalty to the Grown of 14d, per ton, or a minimum rent of 44 a-year. Adjouing, is the BROMLEY HILL HON MINE, of 400 acres, subject to a Royalty of the per control of the mines, and a never-failing stream of water runs through them. These mines are well situated both for railway and water carriage.

For further particulars, apply to Mr. Arthur Ryland, solicitor, Cherry-atreet, BirFor further particulars, apply to Mr. Arthur Ryland, solicitor, Cherry-atreet, Bir-

can student obtain no raniway and water carriago.

For further particulars, apply to Mr. Arthur Ryland, solicitor, Cherry-street, Biringham; Mr. Reginald A. Farker, solicitor, Old Jewry Chambers, London; Mr. Fryer
Gilcitor, Coleford; or to Messra. A. Murray and Son, 35, Craven-street, Strand, London

UPSET PRICE REDUCED. LAST OF SCOTLAND MALLEABLE IRON-WORKS.—

TO BE EXPOSED TO SALE, BY PUBLIC AUCTION, within the TOWN-HOUSE, DUNFERMLINE, on Wednesday, the 6th day of November next, at Twelve of clock noon, the EAST OF SCOTLAND MALLEABLE IRON-WORKS, at DUNFERMLINE, comprising—A STEAM-ENGINE, of 80-horse power, working the smachinery, consisting of FORGE and 2 PUDDLE BARL TRAINS, of 16 in diameter, HAMMER and PATENT SHINGLING MACHINE; also a 16-in. MERCHANT BAR OF RAIL MILL, as PUD-DLING FURNACES and 6 MILL FURNACES, the whole capable of producing 120 tons of bar-iron weekly.

bar-iron weekly.

A REFINERY STEAM-ENGINE, of 45-horse power, with blowing appearance.

A REFINERY STRAM-ENGINE, of to-more power, and two fires erected.

A complete SET OF WORKSHOPS, containing a 20-horse power STEAM-ENGINE, a complete SET OF WORKSHOPS, containing a 20-horse power strained and CLAY MILL STEAM-ENGINE, of 16-horse power, used for the manuacture of fire-brick and pumping water for supply of engines.

Also the ESTATE of TRANSY, consisting of about 107 imperial acres, with elegant ANSION-HOUSE and PLEASURE GROUNDS, altuate about half a mile to the east of he town of Dunfermilne.

he town of Dunfermilne.

The above will be put up in one lot, at the reduced upset price of £16,000; if not sold to one lot, the Iron-Works will be then exposed separately, at the very low upset price of £9900; and if the Works be disposed of, the Estate will then after be put up at the um of £6500.

The purchaser of the works will have it in his option to take all the necessary tools, once machinery, and stocks of different kinds, at a valuation.

There will also Bk SOLD, a STEAM-ENGINE, of 80-horse power, intended to drive ne rolling-mills, apart from the forges, with strong cast-iron framing and relative nachinery.

ry.
ther particulars, application may be made to Mr. James Ingits, the Chairman of
of Management; or to Johnstone, Russell, and Craig, writers, in Dunfermline,
hands may be seen the title deeds of the lands and articles of roup,
miline, October 3, 1850.

FOR SALE, BY PRIVATE CONTRACT,

FOR SALE, BY PRIVATE CONTRACT,

THE LONDON VULCAN FOUNDRY AND ENGINEERING ESTABLISHMENT. PORT-DUNDAS, GLASGOW.

These WORKS have been erected within the last few years regardless of expense, having
it the recent improvements and facility for carrying on an extensive business, capable
producing 40 tons castings daily, from five cupolas of the best construction.

The BUILDINGS and FLANT are most extensive, substantial, and well arranged,
aving cranes to sweep the moulding floors, erecting shops, yard, and wharf, all being
outs advantageously situated on the Forth and Clyde Canal, Fort-Dundas, having free
costs to and in the immediate vicinity of the principal Scotch mineral districts, and where,
seeds may be loaded for the London, Liverpool, and other markets.

These works are well worthy the attention of the trade, being at present in operation
and the production of the principal states of the principal

May be viewed on Tucsdays and Fridays, between the hours of ten and three o'clock application to Mr. Alexander Balderston, 18, Renfield-street, Glasgow, who will fur sh all other particulars.

TIPTON

TO BE SOLD, OR LET ON ROYALTY, BY PRIVATE TO BE SOLD, OR LET ON ROYALTY, BY PRIVALE TENDER, A VALUABLE VEIN OR STRATA OF BROOCH COAL, lying in and under about SIXTEEN ACRES of LAND, situate as BLOOMFIELD, in the parish of TIPTON, and county of STAFFORD. The MINE (which lies within thirty-three yards of the surface) has been thoroughly proved to be of very superior quality. There are EIGHT SHAFTS already sunk therein, of which the purchaser or lessee would have the use. The Birmingham Canal, and also the Stour Valley and Oxford, Worcester and Wolverhampton Railways, run through the property, with stations in the immediate vicinity—thus afforting unusual facilities for working and disposing of such mines.

For particulars, apply at the respective offices of Mr. John Bolton, solicitor, Dudley; or Mr. Solomon Powell, surveyor, &c., Tipton, where plans of the property may be inspected, and to whom tenders are to be sent, on or before the first day of November next.

TO BE SOLD, BY PRIVATE CONTRACT, EIGHTEEN SETS OF RAILWAY WHEELS AND AXLES, with wrought-iron spokes and trees, 2 feet 6 inches diameter, 54 inches on the face, and 14 inch thick, narrow gauge.

TWO FOUNDRY CRANES, to carry twenty tons each, with chain, blocks, and gear-inc, complete. ing, complete.
FIFTEEN-HORSE CONDENSING STEAM-ENGINE, with direct action, having beer

in use only about six months.

TWELVE-HORSE HIGH-PRESSURE STEAM-ENGINE, quite new.

Apply to Thomas Dixon, iron merchant, Bradford, Yorkshire.

Apply to Thomas Dixon, iron merchant, Bradford, Yorkshire.

TO BE SOLD, BY AUCTION, THE FREEHOLD FARM, called "THE HOLE," containing 162 acres (or thereabouts) of anciently-enclosed LANDS, and 222 acres (or thereabouts) of more recently enclosed PasTrURE, and an undivided molety of an outer adjoining PASTURE, containing 393 acres (or thereabouts), situate in PRIORSDALE, in the parish of ALSTON, in the country of GUMBERLAND.

The MINERALS under the anciently enclosed lands belong to the proprietor of the soil, and those under the two pastures belong to him jointly with the Commissioners of the Greenwich Hospital.

The ESTATE is intersected by NUMEROUS VEINS of LEAD ORE, mostly unexplored, but in strata favourable to the production of lead ores, being the same as in the adjoining manner of ALSTON MOOR, where extensive lead mines are worked.

The time and place of sale will be announced in a future advertisement. Reference to Measurs, J. and R. Gibson, solicitors, Hexham, Northumberland.

MR. EVAN HOPKINS, C.E., F.G.S., &c., CONSULTING

MINING ENGINEER.

OFFICE, No. 13, AUSTINFERIARS, LONDON,
Mr. HOPKINS may be consulted daily by Noblemen, Gentlemen, and Capitalists, who have invested, or may wish to invest, their capital in MINES or MINERAL PROPERTIES, on all matters connected therewith (Home and Foreign).

*** Every description of Mineral Property inspected and reported on—on the Continent as well as the United Kingdom, and distant capitalists may receive periodical advice.

N.B.—Being a responsible and confidential business, and having a vary extensive connection, it becomes necessary to sequent those who apply for reports, that they must be paid for on delivery, at his office, otherwise they cannot be attended to.

4.3 Mr. Hopkins having just arrived in tewn, will be happy, during his short stay, to communicate personally with any parties who may wish to consult him respecting mining property or management.

R. JAMES CROFTS, of No. 4, KING-STREET, CHEAPSIDE, is encouraged to renew his recommendations to CAPITALISTS to turn their attention to BRITISH MINING PROPERTY, as a safe MEDIUM for INVESTMENT at the present moment in particular—an unprecedented increase having taken place in the productive class of mines, solely owing to the application of capital and improved modes of working.

Mr. CROFTS can procure SHARES in all MINES of repute, and has FOR SALZ specially—Grambler and St. Aubyn (1 share), Wheal Crebor (10 shares), West Wheal Jewel (16 shares), West Wheal Jewel (16 shares), Sheriel Trescoll (10 shares), Wheal Russell (10 shares) Bodeol, or South Wales (230 shares), West Toigus (4 shares), North Shepherds (1 shares), West Stony, Wheal Ston, East Sharp Tor; and in all dividend mines; also Combiswa, Wheal Benny, Lamhercoce, Wheal Vincent, and Wheal Sarah. By spirited working, it may be fairly calculated, they would soon become dividend mines.

** Mr. Caopra is only a purchaser of shares for principals.—Oct. 12, 1850.

MAINING AND GENERAL AGENCY OFFICE.

MINING AND GENERAL AGENCY OFFICE,

No. 52, THREADNEEDLE-STREET, LONDON.

Mr. R. TREDINNICK begs to inform his Friends and the Public of his REMOVAL to
the above COMMODIOUS ROOMS, in the Hall of Commerce, where he purposes to hold,
in addition to his general Agency Business, PERIODICAL SALES, BY AUCTION, of
SHARES in MINES, RAILWAYS, BANKS, CANALS, INSURANCE, and OTHER
COMPANIES; also Reversions, Annuities, Bonds, &c., together with Estates, Houses,
and Property of every description.

SHARES BOUGHT and SOLD ON COMMISSION, and MONETARY MATTERS of
every kind NEGOCIATED; Statistical and General Information afforded gratuitously,
upon personal application.

apon personal application.

Mr. T. offers to the mining world the opportunity of exhibiting in his Public Sal Rooms, Reports, Plans, Sections, and Specimens of Mines and Mineral Districts, whether that in the United Kingdom, Foreign, or Colonial Possessions, upon forwarding the lame, free of expense; as also Plans, Sections, &c., of Estates, Houses, and other Property for Sale.

VALUABLE MINERAL PROPERTY TO BE IN PART OR WHOLLY DISPOSED OF.—This most desirable METALLIFEROUS SETT consisting of nearly 2000 acres, is situated in one of the renowned mining districts of central WALES. One discovery of SILVER-LEAD ORE, made upon it some few months ago, was considered of so singular and promising a nature, that a brief account of it was then published, and subsequently copied into most of the leading papers of the kingdom since that period a shallow sink has been made on the lode, which is 6 foct wide, traversing a beautiful soft whitish killas. The analysis of the ore, of which there is about 10 tons on the bank, gives 75 per cent. of lead and 30 otness of silver to the ton, indeed, the last assay of the ore, found at about 7 fathoms from the surface, gave the extraorinary quantity of 200 onnees of silver to the ton. There is a fine mixture of lead ore at the bottom of the present shallow shaft.

The mine is but 9 miles (of good turnipike-read) from the shipping port, and a fine tream of water runs close past it, offering every facility for the development of its invaluable minoral resources.

le mineral resources. further particulars apply (post-paid) to "X. Y. Z.," at the office of the Minin d, 26, Flect-street, London.

Journal, 26, Fiect-street, London.

MOST VALUABLE COAL MINES, AT NAILSTONE, near BAGWORTH, in the county of LEICESTEE.—TO BE LET, for a term of years to be asyseed upon, all those very valuable BEDS or SEAMS of COAL, sitnate at Madasone aforesaid, extending under 370 ACRES of LAND, or thereabouts, in a ring fence, and adjoining the prosperous collieries of Lord Maynard on the east, and on the west are the extensive collieries belonging to the Leicestersbire Coal Company at Ibstock. The Leicester and Swanington Railway now passes within half a mile of this property, and by it markets have been opened for the sale of the coal, the produce of these mines, in the metropolis, Leicester, Northampton, and in very many of the most important towns of the kingdom. These mines have been proved by the operations of the two important colleries before mentioned, and it has been most satisfactorily ascertained that they are free from faults, and are regular and uniform in their position throughout this estatio. The quality also of these mines is proved to be excellent, and the demand for coal very great and certain.

All further information may be obtained by applying to Mr. Henry Holt, mineral agent. Wakefield; Messra. Sudlows, Torr, and Janewsy, 38, Bedford-row, London; or to Mr, T. M. Lee, solicitor, Leeds.

OCOMOTIVE ENGINES-ON SALE.-SIX NEW LOCOMOTIVE ENGINES—ON SALE,—SIX NEW LOCOMOTIVE PASSENGER ENGINES and TENDERS; particulars as follows Dutside cylinders is in. diameter, and 22 in. in stroke: driving wheels 6 feet diameter and 12 in. in stroke; driving wheels 6 feet diameter. All the wheels entirely of wroughten. Strong copper fire-boxes, with 68 feet of locating surface, and 120 tubes, 10 feet inches long, and 21 inches outside diameter. The tenders are made to hold 1000 gale onso of water, with well constructed framing, all of wrought-iron, and are carried on air wheels, 3 feet 6 inches diameter, of wrought-iron, with cast-iron centres. The whole of the workmanship is of the very best description, and the price very molerate.—For further particulars apply to the makers, Mesars Benjamin Hick and Son, 1, New Broad-street, City, London.—July 25, 1850.

Son, I, New Broad-street, City, London.—July 20, 1890.

A PLEASURE STEAM-SKIFF, fitted with Engine and Boiler, and a Screw Propeller; will run 8 miles per hour—carries 10 persons: sultable for a tidal river.—Price £45.

A THAMES STEAMER, 55 feet long, 12 feet beam, 14 feet paddle-wheels, fitted with a pair of oscillating engines, of 30-lorse power. The cabins are well fitted up, and, with a trifling outlay, the vessel may be fit for service; the engines are in excellent order.—Price £320.

The HULL of a NEW IRON STEAM-BOAT, 166 feet long, 13 feet beam, constructed to draw only 18 inches of water when leaded—will carry 600 persons. She has ample cabin accommodation, and is of the very best workmanship.—Price £425.

MARINE ENGINES, 20-horse power, direct acting, just taken out of one of the river boats, in good condition.—Price £10.

MARINE ENGINES, 20-horse power, direct acting, Just taken out of one of the rivots, in good condition.—Price £110.
ANOTHER PAIR—Price £140.
Also, a pair of 6-horse power, or combined 12-horse.—Price £70.
Also several other engines equally cheap.
Apply to RICHARDSON & CO., 15, Old Broad-street, London.

TEAM TO INDIA AND CHINA, VIA EGYPT.—Regular MONTHLY MAIL (steam conveyance) for PASSENGERS and LIGHT GOODS CEPLON, MADEAS, CALCUTTA, PENANG, SINGAPORE, and HONG-RONG.
THE PENINSULAR AND ORIENTAL STEAM NAVIGATION COMPANY

BOOK PASSENGERS and RECEIVE GOODS and PARCELS for the ABOVE PORTS by their steamers—starting from Southampton on the 20th of every month; and from Suzz on or about the 10th of the month.

by their steamers—starting from Southampton on the 20th of every month; and from Sucs on or about the 10th of the month.

BOMBAY.—Passengers for Bombay can proceed by this company's steamers of the 29th of the month, to Malla, thence to Alexandria by her Majesty's steamers, and from Sucs by the Honourable East India Company's steamers.

by the Honourable East India Company's steamers, and from Suez
MEDITERRANEAN.—MALTA—On the 50th and 59th of every month. Constantimores—On the 29th of the month. ALERANDHA—On the 20th of the month.
SPAIN AND PORTUGAL.—Vigo. Oporto. Lisbon, Cadis, and Gibraitar, on the 7th
17th, and 37th of the month.
For plans of the vessels, rates of passage-money, and to secure passages and ship cargo
apply at the company's offices, No. 122, Leadenhall-street, London; and Oriental-place,
Southampton.

STIRLING'S PATENTS FOR IMPROVEMENTS IN 1808.—1. TOUGHENED CAST-IRON, which is double the strength of ordi-TIRLING'S PATENTS; FOR IMPROVEMENTS IN IRON.—1. TOUGHENED CAST-IRON, which is double the strength of ordinary cast-iron, and only from 10s. to 12s. per ton extra.

2. ANTI-LAMINATING RAILS and THES for WHEELS at an extra price of about 7s. 6d. per ton. Also IMPROVEMENTS in the MAKING of WROUGHT-IRON—saving one process to the manufacturer.

Further particulars and terms of license, &c., may be obtained on application to Mr. Jee, civil engineer, No. 6, John-street, Adelphi, London; also from the London agents, Messrs. GARDEN and MACANDREW, 34, Dowgate-hill; and the Scotch agents, Messrs. W. and J. H. Johnson, 166, Buchanan-street, Glasgow and 20 St. Andrews-square, Edinburgh.

HUBBUCK'S PATENT WHITE ZINC PAINT combines LEGANCE, DURABILITY, HRALTH, and ECONOMY. Unparalleled in whiteness. It is permanent for ages—unaffected by blige water, sugar cargoes, vapour from
cesspools, or the most noxious gasse—equal to the finest coach panelling, without the
use of varnish—favourable to the health of the painter, and to the occupants of apartments newly painted with it—covers so much work, that it becomes cheaper than the
poisonous paints hitherto used. Each cask is stamped "HUBBUCK, London, Patent."
A circular, with full particulars, may be obtained from the principal dealers in paints,
and at the works of Thes. Hubbuck and Sop, opposite the London Docks,

WANTED, BY THE MINING COMPANY OF THE CENTRAL PYRENEES, a RESPECTABLE PARTY, either to take the MANAGEMENT on behalf of the company, or to RENT their MANGANESE, and silver—containing LEAD ORE HINES.

For particulars, apply to Graetzer and Hermann, 3, Huggin-lane, Wood-street.

TO COPPER SMELTERS, AND OTHERS.—A Gentleman thoroughly acquainted with all the PRACTICAL DETAIL of COPPER SMELTING, as well as the MANAGEMENT of the WORKS, is OPEN to an ENGAGEMENT, either at HOME or ABROAD. The Advertiser is well acquainted with the working of all the PATENT PROCESSES at present applied to the SMELTING of COPPER ORES in Australia. Satisfactory references given.—Address, "W.E.," Post-office, Swansoa.

O MINING COMPANIES.—AN ENGINEER, aged 39. who has recently returned from the Continent, wishes to meet with AN ENGAGEMENT TO GO ABROAD, to any healthy part, to ASSIST and SUPERINTEND the
ERECTION OF STEAM-ENGINES, or any other MACHINERY, or the WORKING tite
same, having been so engaged the last eighteen years. Can make himself understood in
the German or Spanish languages. Testimonials can be given.

Letters to be addressed "G. P.," care of the Editor of the Mining Journal, 26, Flect-

FURNACE BUILDER.—A PERSON wishes to OBTAIN an ENGAGEMENT TO GO ABROAD, to superintend the ERECTION of BUILD-INGS of any description, such as IRON-WORKS, QUICKSLVER, OR OTHER FURNACES. The Advertiser can make himself understood in the Spanish Language. Testimonials can be given.—Letters to be addressed "R. G.," care of the Editor of the Mining Journal, 26, Fleet-street, London.

DOWERFUL PUMPS, FOR DRAINING LAND, &c.—An EMINENT ENGINEER, in town, having an order for a PUMP to left 20 tons of water per minute, 4 feet high, will CONTRACT to MAKE a SIMILAR ONE, with or without steam-engine combined, at HALF the UVUAL COST. Plans and estimate will be supplied.—Apply to Mr. Dircks, consulting engineer, 32, Moorgate-street, City.

FOR SALE, BY PRIVATE CONTRACT, a 50-in. ENGINE, WITH BRASS CONDENSING WORK AND BOILER (10 tons).

Apply to Capt. Evans, Pool, Cornwall.

MONEY.—SUMS from THREE HUNDRED to FIFTEEN
THOUSAND POUNDS to be ADVANCED on MORTGAGE of FREEHOLD,
LEASEHOLD, COPYHOLD, REVERSIONS, MONEY in the FUNDS, and on approved
MINING and RAILWAY SHARES, and on DEBERTURES, and MONEY NEGOCIATIONS generally EFFECTED.—Apply to Mr. Dickinson, 2, Cannon-row, Parliament-st.

TO AND REPORTING PEFFEURED.—Apply to Mr. Dickinson, 2, Cannon-row, Parliament-st.

MR. JACQUES BRESSON, MERCHANT in FRENCH
STOCKS, established since 1825, in PARIS, 31, PLACE DE LA BOURSE,
(facing the Peristyle of the Palais de la Bourse), undertakes the PURCHASE and SALE
of FUBLIC SECURITIES, of FRENCH RALLWAY SHARES, according to the course
of Exchange of the day—receives them as deposit, and recovers the coupons of interests
and dividends. Investment of large and small sums at more advantageous terms than in
England. He undertakes also, in France, the PURCHASE and SALE of CONCESSIONS
of MINES, of Working Mines, equally the Search of Mines, of Gas-Works, and others—
of from-Mills, Melting and Founding Houses, Weaving-Mills, and large industrial establishments.

MINING—COMPANIES of respectability requiring OFFICES for CARRYING on their AFFAIRS in LONDON, including MANAGEMENT, may be ACCOMMODATED on application to Mr. FENTON, No. 5, WHITE HART-COURT, LOMBARD-STREET.—SHARES ON SALE in those well-known dividend-paying Mines, South Caradon, Providence, Spearms Consols, Cara Bres, Wheal Rose, &c., and a FEW for DISPOSAL in those promising adventures Wheal Arthur, Wheal Ost, Warleggan Consols, South Relistian, &c.

MINING OFFICES, No. 9, ST. MICHAEL'S-ALLEY, CORNHILL, CITY (established 20 years).—WM. TRENERY begs respectfully to imform the Public that he is at all times in a position to BUY or SELL SHARES in most of the DIVIDEND-PAYING MINES; and betting a native of Cornwall, he is always ready to give the best information respecting mining property in general.

MINING PROPERTY.—Messrs. BROWN & CO., of No. 16, FENCHURCH.-STREET, LONDON, transet EVERY DESCRIPTION of MINING PROPERTY, and have now on hand a FEW SHARES in one of the most valuable in Cernwall, being surrounded by Carn Brea, Wheal Buller, and other rich and dividend-paying Mines; and have also a few of the remaining Shares in Exmoor Wheal Eliza, Polgoar and Lancarrow, and West Phomix Mine.—Sopt. 20, 1850.

MINING PROPERTY.—BUSINESS transacted in every description of MINING PROPERTY, SHARES BOUGHT and SOLD, ADVICE GIVEN to PARTIES as to INVESTMENT, ADVANCES of MONEY MADE on this DESCRIPTION of PROPERTY, Statistics given on Mines, and the earliest information obtained from the mineral districts.—Apply to DURRANT & CO., Mining Sharebrokers, 98. Lombard-street.

MINES.—MOLYNEUX & CO., 6, FINSBURY-PLACE SOUTH, and 6, WEST-STREET, FINSBURY-CIRCUS, have SHARES FOR SALE in DIVIDEND-PAYING and OTHER MINES, which will ensure to capitalists the safest and most unexceptionable investment.—Office hours from Tent to Five o'clock.

MANUEL AND CO., MINING AGENTS, are instructed to SELL in the following DIVIDEND-PAYING MINES:—South Frances, Wheel Seton, Treviskey, South Basset, &c., also in other mines, including—Russells, Runnaford Coombe, Exmoors, &c.,—Office, 42, Fish-street-hill, London.

R. R. TRIPP, MINING AGENT, is instructed to BUY and R. K. TRIFF, MINING AGENT, IS INSTRUCTED TO BUY AND
SELL in most of the best DVIDEND-PAYING MINES, including—Devon Great
is, Treviskey and Barrier, South Caradon, West Caradon, Wheal Margaret, Wheal
AlfredConsols, Wellington, Great Wheal Baddern, Wheal Tremayne, Lelant ConWheal Trelawny, Wheal Mary Ann, Stray Park, South Basset, Tincroft, Tamar
FOREIGN: Linares, United Mexican, St. John del Rey, Santiago, and Cobre Mine,
MINING AND SHARE OFFICES,
ST. MICHAEUS ALLEY, CORNHILL, LONDON.

MESSRS. BOXALL & CO., MINING SHARE DEALERS, 5, CROSBY HALL CHAMBERS, BISHOPSGATE-STREET.

MESSRS. WATSON & ENSOR, MINING AGENTS,

CREFT AND CO., 1, ROYAL EXCHANGE BUILDINGS, LONDON, can always BUY or SELL every description of MINING SHARES. WANTED, Peter Tavy and Mary Tavy shares, for which a large premium will be given. EAST TRESCOLL MINING COMPANY.—Notice is hereby given, that the OFFICES of this COMPANY are now REMOVED from Kingstreet to 15, OLD BROAD-STREET, CITY. JAMES BRAND, Purser.

MINING COMPANY OF WALES.—PROSPECTUSES, containing REPORTS on the MINES and QUARRIES of the COMPANY, Terms and Conditions for its Government, &c., may be had of ST. PIERRE FOLEY, Secretary, to whom letters on the allotment of shares, and on the general business of the Company, are to be addressed.—Offices, 24, Lincoln's Inn-fields, London.

are to be addressed.—Offices, 24, Lincoln's Inn-fields, Lordon.

CAMBORNE CONSOLS MINING COMPANY.—Notice is hereby given, that a GENERAL MEETING of the shareholders of this Company will be HELD at the Company's offices, 29, New Bridge-street, Blackfriars, London, on Thursday, the 17th day of October next ensuing, at one of the clock in the afternoon precisely, for the purpose of transacting the ordinary business of an Annual General Meeting of the shareholders, according to the provisions in the Company's Deed of Settlement, and that the said General Meeting will be made Special, for the purpose of confirming the resolutions passed at the Special General Meeting, held on the 23d day of May last; and also for the purpose of considering the expediency of dissolving the said Company, and the best mode of winding up their affairs, with a view of abandoning the present constitution of the Company under the Joint-Stock Companies' Act, and to carry on and work the mines on the Cost-book System, and for adopting such resolutions, and giving such directions, as may be deemed necessary or advisable for effecting the purposes aforesaid, or in relation thereto.—Dated this 21st day of Sept, 1850.

By order of the Board of Directors, H. L. T. VON that a DIVIDEND of KIGHT SHILLINGS per share will be PAILDs by the days of the Company, at the office, 22, Austinfriars, on Monday, the 14th October sax, and following days. The dividend warrants are required to be left at the office that a DIVIDEND of KIGHT SHILLINGS per share will be PAILDs by the standard following days. The dividend warrants are required to be left at the office warming of the company, at the office, 22, Austinfriars, on Monday, the 14th October sax, and following days. The dividend warrants are required to be left at the office warming of the company at the hours of Twelve and Two.

By order of the directors,

TINCROFT MINING COMPANY—THIRTEE THE DIVIDEND.—Notice is hereby given, that a DIVIDEND of TEN SHILLINGS and
SIXPENCE per share, being 7½ per cent. upon the paid-up capital of this company, withbe FAID on Wednesday, the 16th day of October next, and succeeding Wednesday, between the hours of Twelve and Three o'clock.—The certificates are required to be loft at
the office two clear day, in order to be examined and marked.

Salvador House, Sept. 19, 1850.

P. STAINSBY, Managing Director.

MINING IN SCOTLAND.

The parties tried in the Justiciary Court, on a charge of calpable homicide, in connection with the late fire-damp explosion at Airdrie (referred to in last Mining Journal), appear to have been acquitted, because the catastrophe was as traceable to the conduct of the miners themselves, in rushing into the pit as traceable to the conduct of the miners themselves, in rushing into the pit with open lamps, as to any neglect of the necessary precautions on the part of the coal-master or the manager of the mine. It was stated in evidence that the explosion could only have occurred by the fire-damp coming in contact with an open lamp. One witness, an engineer, observes that "there are not, generally, more than two or three Davy lamps in a pit—the men will not work with them though they get them." It is surprising that the benefits of an admirable and ingenious invention should be lost in this way by the stupid obstinacy of the very persons whose lives it is intended and so well fitted to preserve. The existence of fire-damp in the pit was well known to the miners, who were in the habit of waving it out with their jackets. The awful consequences of the noxious gas coming into contact with fiame must also have been known to them, if not steeped in grosser ignorance than we consider credible even in a mining population; and yet they entered the pit with open lamps, though science has offered to their use, at little cost, a light which would have conducted them unscathed through the element of destruction. It is really impossible by any precautions to guard men from danger who are so callous to their own safety; and, therefore, the jury rejued to return a verdict of guilty against the master and his son, although it is plain from the evidence that they were not altogether blameless.

The neglect of the Davy lamps, to which we believe the late dreadful accident to be mainly attributable, appears to be alarmingly common in Lanarkshire. William Marshall, engineer, deposed as follows:—

"It is not usual in Scotland for all the miners to be supplied with the safety lamp, through one or two might be, even when fire-damp existed to a great extent. A safety lamp costs from 6a to 10s. 6d. In England all the workmen are furnished with safety lamps where fire-damp exists. He could not say why they were not furnished in Scotland, but beli rith open lamps, as to any neglect of the necessary precautions on the part

catches the lamp several times during a day. He never saw workmen fanning the damp out with their coats in the mornings, but he has been told that such is the case."

Any one who has been in the mining districts of England must have observed how universal the use of the asfety lamp is among the English miners. Even every little boy who goes down into the pits has his safety lamp attached to his cap. We confess that we are considerably startled by the very different habit prevailing in Scotland, and especially, as it would appear, in Lanarkshire, because it never occurred to us that there might or could be such a distinction. In England, it seems to be the practice for the masters to provide the workmen with the lamps, afterwards deducting the cost of them doubtless from their wages. It is a wise custom which thus throws the superior intelligence and forethought of the employers as a guard over the lives of the employed; and it might very prudently be imitated in Scotland, where the coalmasters may learn from this trial the imminent risk they run of being charged with the entire culpability of accidents for which they are only partially responsible. It is clearly the interest of the masters that the miners should be provided with safety lamps, and compelled to use them—it is equally the interest of the miner; and the authority of the masters may most justly and properly be inteposed to enforce a regulation in which the safety of both are so closely concerned. We can hardly deem it possible that any pit-owner in Scotland, after the warning which has now been given, will consider that he has done his duty until the Davy lamps are brought into common and constant use among his men. After such revalations as have been made on this trial, indeed, we would consider it no undue stretch of power if the Legislature were to render compulsory the use of a preservative so simple, so efficacions, and yet so stupidly neglected. The State may wisely take mercy on those who are so infatanted as to have no mercy on themselves.

ANOTHER SUFFERER FROM A LIVER COMPLAINT CURED BY HOLLOWAY'S FILLS.—The wife of a respectable trademan, residing in the neighbourhood of Thrapsione, was suffering for more than two years from a severe liver complaint, during which period she received the best medical advice, but without deriving the slighest benefit therefrom. She then made trial of Holloway's pills, and by their use alone she has been restored to perfect health; the name of the party cured is not made public, but Mrs. Collier, bookseller, Thrapstone, can vonch for the authenticity of the case. These pills are also an infallable remedy for indigestion, billious attacks, headaches, and all disorders of the stoemach. Sold by all druggists, and at Prof. Holloway's establishment, 244, Strand.

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bottla.—PERRY'S PÜRÉYING SPECIFIC PILLS, 2s. 9d., 4s. 6d., and 11s, per box—a certain remedy for gonorrhoza, gleet, strictures, and chronic infiammation of the bladder.—Consultation fee, if by letter, £1. A full description of the case is necessary, stating age, habits, and position in society £5 packets, with advice, to be had at the establishment only, by which the fee, £1, is saved.—Messra Perry, surgeons, are in attendance daily at 19, Berner-street, from 11 to 2, and 5 to 8; on Sundays, from 11 to 1. Sold by Satton and Co., 10, Bow Churchyard; W. Edwards, 67, §2. Faul's Churchyard; W. Edwards, 67, §3. Faul's Churchyard; U. Hill, New Cross; W. B. Jones, chemist, Kingaton; J. W. Tanner, Ephan; S. Smith, Windsor; J. B. Shillock, Bromley; T. Riches, London-street, Greenwich; T. Parkes, Woolwick; Ede and Co., Dorking; and John Thurlby, High street, Romford—of whore may be had the Silent Friend.

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THE GOLD MINES OF BRAZIL

At the Royal Geological Seciety of Corawall, Mr. William Jory Henwood, F.G.S., read a paper on the metalliferous (gold) deposits of Brazil.

The gold-bearing strata consists of granite, talcose and clay-alates, and a granular rock of quartz and talc, locally called Itacolumite, in which the latter is sometimes replaced by oxide of iron. These are followed by the Jacotinga, the principal auriferous rock, which is for the most part composed of specular iron ors, and oxide of manganese, but sometimes contains talc, mice, and quartz also-arock very closely resembling that beneath the Jacotinga, but generally rather less quartzose, succeeds; and this is overlaid in many places by calcarcous strata. No oversaic remains have yet been found in any of these formations. The gold

sometimes replaced by exide of iron. These are followed by the Jacolings, the principal surferous rock, which is for the most part composed of specular iron or an and oxide of managemen, but sometimes contained to the control of th

THE COAL TRADE MOVEMENT.—A deputation-from the Wigan Coalowners Association, consisting of Mr. R. A. Thicknesse, M.P., Mr. James Brancker, Mr. Jerdein, and Mr. William Laird, have had an interview with the traffic committee of the London and North-Western Railway Company, the object of the deputation being to impress on the traffic committee the importance of providing at their two dock stations proper accommodation for the coal trade; the high level at their Waterloo atation for the shipment of whole cargoes and large quantities of coals; and at their Wapping station a connection with some convenient dock, on the low level, for the purpose of delivering small quantities of coal for ballast to ships, requiring to fill up with other goods. The deputation were very courteously received, and orders were given to the proper officers of the railway company to prepare plans and estimates of so much of the work as fairly belongs to the railway company. If this interview should lead eventually to the shipment of coal, at the two points above named, it will put the coal proprietors of the St. Helens district in possession of a much more economical and speedy method of shipping coals than they have at present at Widness Dock, and will most probably save the Liverpool Dock Trust from the competition of rival coal docks at Garstang, as well as ensure to them a large and increasing revenue from a trade which only asks the ordinary facilities granted at all other coal ports.—Liverpool Albion.

Reduction in the Price of Coals.—Now that the winter is approaching

revenue from a trade which only asks the ordinary facilities granted at all other coal ports.—Liverpool Albion.

Redudothen in the Price of Coals.—Now that the winter is approaching we do not think a more acceptable announcement could be made to householders, especially those of the middle classes, than that which heads this paragraph. There is no better coal in the world than that of the Ince-Hall Company; their Arley is equal to the best coal ever raised, burning without dirt. cheerfully and brightly to the last. Their King coal is scarcely inferior to their Arley, being the quality hitherto generally sold here as the best. The discovery of the Arley on their domains, at a vast depth, has, however, put them in possession of an article of the highest quality, and this, as well as the King, they offer to the people of Liverpool and the vicinity, at prices which will cheer the hearts of all who love a clean and comfortable fireside; and what Englishman does not? Their Cannel, famed for its cheerful, crackling, brilliant flame is offered at a great reduction, so that many who have not been hithreto able to procure it, may now enjoy a laxury which has long been confined to the wealthy. The coals known as Pemberton Four-feet and Ince Four-feet, particularly the former, are fit for consumption in any family. The spirit which has urged this company to offer the inhabitants of Liverpool, Seacombe, Egremont, &c., good fuel at reasonable prices cannot be too greatly appliated, and our wealthy and benevolent townsmen will be glad to know that the poor will be enabled, in the cold season that is approaching to obtain supplies of a necessary scarcely less important than food, at a cost so considerably reduced.—Liverpool Times.

FOREIGN INTELLIGENCE.

FOREIGN INTELLIGENCE.

SOUTH AUSTRALIA.—Letters and papers have come to hand from Port Adelaids to the 25th June, which are, however, only a few days later than previous advices. Mining enterprise continued to be vigorously prosecuted. Several new and important discoveries had been made, and speculators in the shares of the various companies were active in consequence. Burra Burra shares had advanced 15t. each, having reached 180t., buyers. Princess Royal were 86t. each, and Mount Remarkable 10t.

GOLD WASHING IN AUSTRALIA.—At Balhannah, Mr. Adelberg, a Ruesian, performs the washing by means of a machine, which he has hunself invented. The soil is taken from the river, washed in this machine, which reduces it to the value of about 40t. per ton, and it is estimated, by an expenditure of \$t\$. 10s., that a value of 25t. is produced. At Onkaparinga, Captain Phillips, a Cornish miner, is washing the ore in nearly the same manner as tin streaming is pursued in Cornwall.

Califounda.—The steamer, Philadelphia, hes arrayed at New York, being the

sued in Cornwall.

California to the 15th August, and \$1,500,000 worth of gold dust, with a large amount of gold in specimens of heavy lumps of the precious metal. The Ohio United States mail steam-ship from Havana, with the California mails, had brought half a million dollars of gold dust, on freight, and in the hands of passengers. It is estimated that California has sent into the world, during the past two years, full \$150,000,000 worth of gold dust, which has been distributed as follows:—

KONGSBERG SILVER MINES.—The produce of these mines for the months of July and August have been respectively 1306 mks. 2 ozs., and 1830 mks. 2 ozs silver. During the corresponding periods last year it was 1715 and 1885 mks. fine silver.

The lead mines of the Sierra de Gader, in Valencia, are producing an impor-tant influence on the neighbourhood. The town of Berja in particular has very much increased in trade and population, and a theatre has been lately set up for

Advices from Antwerp mention that the Chamber of Commerce of that city has decided upon addressing a communication to the Belgian Government, recommending that the charge of transpurt by railway of coals, intended for exportation, be reduced to a rate sufficiently low to enable vessels, which at present go in ballast to Newcastle for supplies, to obtain the article in Belgian ports on terms could be desired as

terms equally advantageous.

The Courrier du Nord says that the Minister of Agriculture, while recently visiting the coal mines of the Anzin Company, at Denain, discovered a rough diamond fixed in a stone which had been extracted with the coal.

EXTRAORDIMARY QUICK VOYAGE.—The Pakenham arrived at Liverpool on Tuesday from Adelaide, with 750 tons (more than her registered tonnage) of copper ore, besides other cargo. Notwithstanding an extremely boisterous passage, the Pakenham has made the run in 104 days, which is unprecedently quick, when the very unfavourable nature of her cargo is taken into consideration, together with the fact of her having come round Cape Horn in the depth of winter. This vesuel sailed from Liverpool in December last, for two ports in Australia, and, leaving out the time she was detained in the colony, has made the voyage round the world in 6 months 17 days.

SKELETONS FOUND IN A LEAD MINE.—Some miners were engaged last week in emptying out an ancient mine shaft near the Noon Nick Mine, in the parish of Bonsall, when, at a considerable depth, they came upon a number of human bones, partially intermingled with the old mine rubbish. As they proceeded with their work, many more bones were discovered, amounting in the aggregate to as many as would, if re-articulated, form three human skeletons, the skulls of each being in a tolerable state of preservation, and many of the teeth particularly so. The conjecture is that the bones are all that remain of three unfortunate minera, who were killed by the "running in "of the shaft.

The Electric Telegraph.—A letter from Verona of the 25th ult. says the first communications by means of the electric telegraph between this place and Vienna have just taken place. The line between Verona and Venice has been for some days at work, and that between Verona and Milan will be soon completed. Thus in less than six months there have been established in the Lombardo-Venstian kingdom and in the Southern Tyrol, 240 miles of electric telegraph, the wires of which, cased in gutta percha, are buried in the ground about 2 feet. These communications are speedly to be extended to Mantus, as well as from Venice to Trieste.

Mining Correspondence.

BRITISH MINES.

BRITISH MINES.

ALFRED CONSOLS.—I hope by the end of the present week that Field's ungine-shaft will be sunk to the 80 fm. level—the lode in this shaft is without change since the last report. The lode in the winze staking under the 70 fm. level, east of said haft, is 5 ft. wide, worth for copper ors from 60.t or 70. per fathom. The lode in the 60 fm. level, east of engine-shaft, is from 6 to 7 ft. wide, worth for copper ores from 100.to 100. per fathom; this course of ore is extending east beyond the ore ground over this n the 60 fm. level. The lode in the 60 fm. level, east of Field's engine-shaft, is from 5 to ft. wide, worth for copper ore from 400. to 800. per fm. These courses of copper and celdedly botter than was calculated on, and no doubt will produce a great quantity of cod quality copper ore. No other change to notice since my last report.

decidedly better than was calculated on, and no doubt will produce a great quantity of good quality coppus ore. No other change to notice since my last report.

BEFFORD UNITED.—The cross-out south from the engine-shaft is still in very hard troublesome ground, and consequently we have made but slight progress during the past month; there is a little water issuing from the end now, which indicates the proximity of the lode. In the 115 fm. level, east of Andrew's winze, the lode is 25 sets wide, composed of capel, spar, mundic, and good stones of yellow ore, and likely to improve; in the same level west the lode is 2ft. wide, composed principally of spar and capel, and some spots of mundic and black ore. In the 103 fm. level east the lode is much improved; it is now full 4 ft. wide, with a moderate underlie, and worth from 6 to 7 tons of good yellow ore per fathom; the lode in the back of this level is also much improved—we have now four pitches set in it at 2z, 3z, 6z, and 7z, in the 12. In the 90 fm. level east the lode is 3 ft. wide, producing awing work, but not quite so productive as it was; in Aracott's winze, sinking in the bottom of this level, and now about 10 fathoms before the 103 each, the lode is 3 feet wide, and worth from 4 to 5 tons of good yellow ore per fm. In the 90 fm. level, on prove the ground shortly, when we propose to sink a winze to the 90 fm. level, to prove the ground and for ventilation. Evans's rise, in the back of this lovel, is not yet holed, but will be in the course of a few days. The driving east, in the 70 fm. level, is suspended until Evans's -rise is holed, and better ventilation obtained. The cross-cut north, in the 47 fm. level, is progressing favourably at the rate of 4 fms. per month, and in good clear killas, with occasional small branches, containing mundic and spots of ore. The tribute department is yielding the usual returns as to quantity, the quality being about 14 better than for some time past. We are proparing to prove Delve's Kitchen, by clearing up the shallow

being better able to determine the most eligible spot for sinking a shaft.

RRYNTAIL.—We have dressed 10 tons this week, and will try hard to do as much next. The mine is looking admirable, but we are so full of stuff in the mine, and on the flooring, that I am going to stop the rasen stoping, as they cannot work to advantage, and drive a cross-cut north about 20 fms. east of Hill's stope. The stope in the 5 fm. level has improved eastward; the end is looking promising, and will yield 2½ tons per fm. The boundary cross-cut has not yet reached the lode, the ground having got much harder. We have full three months' work for one crusher now broken in the mine, and most of it of rich quality. We are preparing for the other crusher, so that no time may be lost in getting it to work after its strival here.

BUTTERDON.—The engine-shaft is sunk 17 fms. 2 ft. from surface, where the ground is a little harder. Since my last report the sinking of the shaft has been delayed part of the time, in consequence of the men being employed in dividing and casing down the shaft. The bolier is on the mine and fixed, and other parts of the engine are being put together with all speed, and I hope to get ready for working in or about six weeks from this time.

CALLINGTON.—The lode is the 125 feature.

being put together with all appea, and I nope to gave them, we want to the time weeks from this time.

CALLINGTON.—The lode in the 125 fathom level north is at present poor, being disordered by a small cross-course; the lode in the 125 south is about 8 in. wide, producing good stones of silver-lead ore. The diagonal shaft, sinking below the 112 fm. level, is now down 7½ fms., ground just as lest reported for sinking. The lode in the 112 fm. level south is 9 in. wide, yielding work of coarse quality. In the 112 fm, level north, at the south mine, no lode has been taken down since last reported. In the wines sinking below the 112 fm. level south the lode is about 8 in. wide, opening moderate tribute ground. We expect in the course of another fortnight to communicate this wines with the 125 fm. level, when we shall be in a position to set two additional pitches in the back of the latter level. At Kelly Bray, in the engine-shaft, we have nothing new to report on—ground still hard for sinking. We have a pare of men putting in air pipes, &c., in the 76, preparatory to their rising in the back, which they will commence to-morrow.

CALSTOCK UNITED.—The 42 fm. level has been driven this week about 0 ft.; the pitch over this end continues to yield very good work, and is let to four men, 13s. 4d. in 1/.—the takers paying returning charges, and to continue until the engine at work. The pitch on the western side of the cross-cut is let to two men, at 10s. in 1/.; is pitch is also yielding good work. The north adit has been driven this week 2 fms.—round a little harder, and more compact. A great quantity of water is coming from the 1d. We are not far from the 1ode.

CARADON VALE—I shall has better contact.

nd. We are not far from the lode.

CARADON VALE.—I shall be better enabled to send you a report of this into ling long to the lode west through the ross-course; but, judging from present appearance, I have every reason to believe that is mine will make ore at a shallow depth under the present workings. Those beautish branches of solid copper that are ranning in the vicinity of the lode must be evidently oduced by a greater body; the strata is, without a doubt, equally favourable with any strict I aver asset.

CARTHEW CONSOLS.—The sumpmen have now completed the plat in the 75 fm. level, and on Monday (the 30th Sept.) will commence sinking for the 85 fm. level. The lode in the 75 fm. level end north looks very well, as it does also in the south end in this level. The lode in the south end, 65 fm. level, still continues to look as well as it has at any former period; we have now about 2 fms. of it taken down; and I have this day (Sept. 28) reset the winze in the bottom of this level north, wherein there is a very good lode. The mine throughout, in the tutwork and tribute departments looks remarkably well.

this day (Sept. 28) reset the winze in the bottom of this level north, wherein there is a very good lode. The mine throughout, in the tutwork and tribute departments looks remarkably well.

COMBLAWN.—In handing you a detailed report of our proceedings here since we first commonced the walls of our engine-house, which was on the 14th Feb. last, I have to observe that we have completed the engine-house, with the exception of plastaring inside, boiler-house, stack, coal-selec, oul and tron-yard, and bot-pit, and have taken down the engine at Wheal Martha, removed and refixed it here, and set it to work on the 77th May last; also made and erected new capstan and shears, fixed whim, &c. Since that time (27th May) we have cleared up, cut down the engine-shaft 24 fans-below the adit, or 28 fathoms from the surface, fixed all the pitwork, cased and divided down shaft, and made every thing complete to the bottom. After clearing the shaft 7 fms. below the adit, we intersected the north lode going through the shaft, and a level extended east on its course 8 fms. 2 ft. There is also a cross-cut driven south 13 fms. 1 ft., where the south lode is cut and two levels driven on its course—sast 5 fms. 2 ft., and west 2 fms. 1 ft.—and composed of spar, dark elayslate, mundic, &c. In the 14 fm. under adit, we came to another cross-cut driven north, and the lode cut 9 fm. fm fm and fmid its driven 7 fms. 4 ft.; the lode is about 3 ft. big, containing spar, capel, and mundic. There is also a level driven west 34 fms., where there is a rise 3 fms. bigh, and another level extended still further west from this rise 23 fms. and the lode just of the same appearance as the lode in the eastern end; the backs in this level are worked away 5 fms. high; there is a winze sumk below this level 10 fms. from the shaft, but to what depth I cannot say, as it is full of mud and water. In the 20 fm. level there is a cross-cut driven morth 13 fms., where the was a small branch of spar and mundic, about 1 ft. big, intersected. There is also a cross-cu

EAST GUNNIS LAKE.—We set the new wheel to work on Friday last, and I am happy to say that everything was found to be in a most efficient state, and I have no doubt the water is forked from the shaft ere this. In one hour after the wheel was set to work we could see that the three lodes were being drained.

EAST WHEAL GEORGE.-The lode in the 12 fm. level, east of engine EAST WHEAL GEORGE.—The lode in the 12 fm. level, east of engine-shaft, is from 4 to 5 ft, wide, composed of spar, peach, and ore; a kindly lode, which, in my opinion, promises to prove more productive at a deeper level; the lote in the 12 fm. level, west of engine-shaft, is improved in appearance since my last; the lorse of killas, named in my last region, appears to be wearing out, and the branches again forming into a regular lode, which is producing some saving work. The lode in the, stopes in the back of the 12 fm. level, west of engine-shaft, is not looking quite so well, being disor-dered by a horse of killas. The sampmen are in course of fixing the standing lift in the 13 fm. level, which we hope will be completed in the course of a day or two, when they will again commence sinking the shaft. We have sent off some ore to Plymouth, and I expect we shall sample, on Tuesday next, about 29 tons of good quality ores. I am just new come up from underground, and I have pleasure in stating that everything con-nected with the working of the nime is going on quite satisfactority.

ESGAIR LLEE.—The caunter lode, in the deep adit of Owen's winze, has

AIR LLEE.—The caunter lode, in the deep adit of Owen's winze, has taken down in the past week; when last reported it would yield a ton of ore The caunter lode in the 12 fm. level, east from the surface, has not been taken he past week; when last reported it would yield 4 or 5 cwts. of ore per fathon last we have a state of the caunter loge. ESGAIR LLEE .-

per fm. The caunter lode in the 12 fm. level, east from the surface, has not been taken down in the past week; when last reported it would yield 4 or 5 cwts. of ore per fathom. The caunter lode in the 12 fm. level, east from the surface is shiking in the country to take the lode in the 25 fm. level, east from the surface is shiking in the country to take the lode in the addit. TRETHEVY.—I was at the mine yesterday, but was prevented from going Since my last we have set aix men to rise and stope in back of the 12 fm. level 5 or 6 fms. behind the present end, 8 fathoms or the month, at 24, 105, per fm.; the lode will yield about \$\frac{1}{2}\$ ton 6 ore per fm. The other stopes are much the same as in my last, yielding about \$\frac{1}{2}\$ ton 6 ore per fm. We shall, on Saturday next, sample 25 tons of ore.

GREAT SHEBA CONSOLS.—I have by this post sent you a box of ore, broken from the new lode cut in the lobby, the appearance of which is undoubtedly such as was never seen this side of Maria; to such shallow depth, the copper, of course, looks well; but, for my own part, if there was not a speck to be seen in the lode, to such shallow depth, I should like it equally as well. To tell you the fact, I am not one of those who depth, I should like it equally as well. To tell you the fact, I am not one of those who underreast in a light goosan with quartz, and a little Fuller's earth, with fluor and felspan, looked with sandy mundle and arsenic, rather than relief the copper that is in a claystste suiting.

WEST WHEAL JEWEL.—In the \$\frac{1}{2}\$ fm. level, west of Williams'a crossabout a ton of ore per fm. We shall, on Saturday next, sample 25 tons of ore.

GREAT SHEBA CONSOLS.—I have by this post sent you a box of ore, broken from the new lode cut in the lobby, the appearance of which is undoubtedly such as was never seen this side of Maria; to such shallow depth, the copper, of course, looks well; but, for my own part, if there was not a speck to be seen in the lode, to such shallow depth, I should like it equally as well. To tell you the fact, I am not one of those who are quickly excited by seeing copper very rich at the surface; lot me have rocks of mundic underneath a light gossam with quarts, and a little Fuller's earth, with fluor and felspar, mixed with sandy mundic and arsenic, rather than rich copper that is in a clay slate suiting those indications; of course, there are districts that this would not suit.

HEIGNSTON DOWN.—The lode in the 45 fathom level produces some good saving work for copper ore. The lode in the 35 fm, level east is also large, composed of gossam, with a good leader of ore 8 in, wide on the north part of the lode; the rise in the back of this level, as also the winse in bottom of level and cross-cut south, are without important alteration. Hitchins's shalf produces a little saving work for copper ore.

HOLMBUSH.—Very little work has been done in the 132 fathom level since

HOLMBUSH.—Very little work has been done in the 132 fathom level since our last report, in consequence of stopping the engine early on Thursday morning, and removing the two small 7 and 10-inch lifts from the 110 to the 120 fm. level, and sending down from surface and fixing the 16-inch lift instead, which work is completed in a satisfactory manner, and the engine again set to work on Monday morning, at two o'clock, and we hope the mine will be in fork some time to-morrow, after which we shall go un-

also to sfak Hitchinn's engine-shaft 4 or 5 fathons below the 120, with the aid of water barrels, previous to dropping the 10-inch lift, which we shall afterwards sink with, and be a great advantage, by way of laking up stopes in the softest part of the shaft. The load fode in the 120 fathom level south is 6 ft. wide; at present it is very poor, composed principally of soft quartz and blende. The flas-jack lode, in the 120 fm. level, east of the great cross-course, is 14 in. wide, composed of mundic, spar, and stones of copper ore. We have set at leto tak ment to be put up from the back of this level to communicate to the 100 at 24. 10e, per fm., stent, or the month. The rise will be close to the great cross-course, where the ground is favourable for exploring, and we hope to accomplish it in four months; afterwards, we propose extending a midway level eastward, and sink a winze below the 100 fm. level to hole to it, thereby ventilating and laying open this piece of ground to advantage for stoping, &c. The flas-jack lode in the 100 fm. level, east of the great cross-course, is 2 ft. wide, producing stones of copper ore, and opening tribute ground; the pitch in the back of this level is very much improved of late, and is now set to six men at 3s. in 12. it is wrought 10 fms. above the back of the 100, and at no previous time has it appeared more promising to produce a great quantity of copper ore

KIRKCUDBRIGHTSHIRE.—I am happy to state that we have succeeded getting out all the water from the mine again, and we hope to commence sinking exeart's on Monday next. The lode in the 62 end west is 4 ft. wide, with apots of ore-ne lode in the new shaft is 4 ft. wide, yielding 1 ton of ore to the fm. We have shipped to exerce of lead again to-fast.

The rose in the new shaft is 4 ft. wide, yielding 1 ton of ore to the fm. We have shipped off a cargo of lead again to-day.

LAMHEROOE WHEAL MARIA.—The water is forked at Davey shaft, and the men will commence working this afternoon. The tin lode holds good. Mr. Murray can come any time you appoint.

LEWIS.—Our sumpmen have commenced sinking the sump whim-shaft under the 80 fm. level; the lode is 3 ft. wide, producing stones of tin. In the 80 fathom level there is no improvement. The new lode in the 70 fm. level, west of copper ore shaft, is 10 in. wide, worth 4t, per fathom; ditto west, the lode is 10 in. wide, producing stones of tin. Cock's lode in the 70, cast of copper ore shaft, is 1 in in wide, unproductive. Cock's lode in the 60, east of copper ore shaft, is 2 ft. wide, worth 15t, per fm. The new lode in the 50, west of copper ore shaft, is 8 in. wide, opening tribute ground. Cock's lode in the 60, west of copper ore shaft, is 18 in. wide, worth 8t. per fm. The new lode in the 30, west of copper ore shaft, is 1 in. wide, unproductive. The new lode in the 30, west of copper ore shaft, is 1 in. wide, unproductive. The new lode in the 30, west of ore shaft, is 15 in. wide, worth 4t. per fathom; ditto east, the lode is 1 ft. wide, with shones of tin; the south lode in this level, east of copper ore shaft, is 8 in. wide, producing stones of tin. We shall fall short of the usual quantity of tin this month, in consequence of a breakage to the stamps.

to the stamps.

LISBURNE.—The report of the 7th inst. and setting-list show that there are nine levels driving through productive ground; two shafts and three winzes sinking also in ore ground, and 29 stopes and pitches, the produce from which, in September, is computed at 460 tons of lead ore. The estimate for October is 437 tons, 274 tons of which is from Logylas Mine, and 163 tons from Frongoch.

computed at 460 tons of lead ore. The estimate for October is 437 tons, 374 tons of which is from Logylas Mine, and 163 tons from Frongoch.

NANTEOS.—The report states that 65 tons of lead ore were sampled on the 7th inst. In the 30 fm. level, east of Taylor's shaft, on the south lode, the lode is 5 feet wide, yielding 15 cwts. of ore per fm.; the stopes in the back of this level, on the north lode, is 6 ft. wide, producing about 10 cwts. of ore per fm. The 20 fm. level, east on south lode, is 6 ft. wide, producing about 10 cwts. of ore per fm. The stopes in the back of the 15 fm. level, yield 12 cwts. of ore per fm. The stopes in the back of the 16 fm. level, yield 12 cwts. of ore per fm. SOUTH BALLESWIDDEN.—Oct. 1.—This mine is looking extremely well; we have cleared to the bottom, and have discovered a beautiful course of tin going down. Last week, four men in five days broke and hauled to the surface upwards of 25f. worth of tinstuff. This is very extraordinary, and has occasioned much talk in the neighbourhood—in fact, from what is already discovered, the mine is worth upwards of 60001.—Oct. 7.—The captain states that they are raising some beautiful stones of tin, and confirms his report of the lat in every particular.

SOUTH MOLTON CONSOLS.—The lode in the 22 fm. level north is 2 ft. wide, producing 12 cwts. of iead per fm.; we have also two pares of men stoping the back of this level, where the lode is producing from 7 to 8 cwts. of lead per fm. The lode in the 32 fathom level is 3 ft. wide, producing good stones of lead. We shall have to drive 50 fms. before we shall reach the same extent as in the 22 fm. level, though we are expecting daily to meet with a course of lead gone down from the 22. We are now busily engaged in dressing, and shall get a parcel of ore prepared for market as son as possible.

pecting daily to meet with a course of lead gone down from the 22. We are now busily engaged in dressing, and shall get a parcel of ore prepared for market as soon as possible.

SOUTH WHEAL TOLGUS.—The north lode, in the 54 fin. level west, is 2½ feet wide, yielding some very fine stones of ore, and is larger and more kindly than in any of the other levels over this place, A rise from the 54 east is ny 9 fms, averaging a ½ ton of ore per fm. A rise from the 42 to the 32 has laid open a good piece of ore ground. The 42 east, on south lode, is 15 inches wide, yielding ½ ton per fm.; it is expected that this is a continuation of the run of ore formerly seen in the 22, about 16 fms. further east than the end of the 42; the 42 west, on South lode, yields some ore, and is very promising; west, on the north lode, is has been without ore until within the last 2 fms.— it now produces some fine stones of ore, and is very promising. The 32 fm. The lode in a winze sinking from the 22 fm. level, opposite Rod's shaft, is 30 inches wide, producting a ½ ton per fm.: the winze is down 13 fms. Good ore ground c, a rise in the end of this level is up 8 fms., and the lode has continued equally productive all the way. The lode in a winze sinking from the 22 fm. level, opposite Rod's shaft, is 30 inches wide, producting a ½ ton per fm.: the winze is down 13 fms. Good ore ground continues to be laid open on-Yourne's lode. The 12 im. level, east from cross-cut has been driven 28 fms., through a good course of ore; the end still looks wall, producing 15 or of ore per fm. The 22 east, from a cross-cut 180 fms. from engine-shaft, on the same lode, is yielding 1 ton of ore per fm.; other important trials are being made on this lode: the same level east, on south lode has, during the last two months, passed through some good ore ground, and the lode is still very kindly. In the 12 east and the addit level this lode is large, and very promising, with some stones of ore. The report concludes as follows:—"The erection of our new machinery has

rate of discoveries continue, we shall before long be able to do more."

SOUTH WHEAL TRELAWNY.—We are driving a cross-cut east of the engine-shaft in the 60 fm. level with six men, ground favourable. We have opened some ground north and south in the western cross-cut in the 60 fm. level, on a branch composed of quartz and fluor-papr, but no improvement; as regards the costeaning part of the boundary there has been nothing dome, by reason of an increase of water—the works are almost full to the auriace. We have had a deal of rain, and the springs are very high, so that the men shat were engaged there are put to drive north on the course of the lode in the 30 fathous level west of the shaft; the lode is regular, and the ground is favourable, but still unproductive.

the lode in the 30 fathom level west of the shaft; the lode is regular, and the ground is favourable, but still unproductive.

TINCROFT.—On Highburrow tin lode, in the 152 fm. level, east of engine-shaft, the lode is 5 ft. wide, worth 25t. per fm. In the 142 fm. level, east of Marrin's east shaft, the lode is 4 ft. wide, worth 25t. per fm. In the 132 east the lode is 4 ft. wide, worth 15t. per fm. In the 100 fm. level, west of engine-shaft, the lode is 4 ft. wide, worth 15t. per fm. In the 100 fm. level, west of Downright shaft, the lode is 6 ft. wide, worth 15t. per fm. for tin; in the winze sinking below this level the lode is 5 ft. wide, worth 15t. per fm. for tin. Grout's lode, in the 80 fm. level west, is 8 feet wide, worth 50t. per fm. for copper. In the 70 fm. level west the lode is 6 ft. wide, worth 50t. per fm. for copper; in the west end, same level, the lode is 4 ft. wide, worth 15t. per fm. for copper; in the west end, same level, the lode is 4 ft. wide, worth 15t. per fm. for copper; in the winze sinking below this level the lode is 4 ft. wide, worth 12t. per fm. for copper; in the waste end, same level, the lode is 4 ft. wide, worth 18t. per fm. for copper; in the west end, same level, the lode is 4 ft. wide, worth 18t. per fm. for copper; in the winze sinking below this level the lode is 4 ft. wide, worth 18t. per fm. for copper; in the waste end, same level, west of engine-shaft, the lode is 3 feet wide, worth 15t. per fm. for copper; in the waste will be well be lode is 4 ft. wide, worth 18t. per fm. for copper; in the winze sinking below this level the lode is 3 feet wide, worth 15t. per fm. for copper; in the winze sinking below this level the lode is 3 feet wide, worth 15t. per fm. for copper; in the winze sinking below this level the lode is 3 feet wide, worth 15t. per fm. for copper; in the winze sinking below this level the lode is 3 feet wide, worth 15t. per fm. for copper; in the winze sinking below this level the lode is 3 feet wide, worth 15t. per fm. for copper; in the winze sinking

worth 3l, per fm. for copper.

TRELAWNY.—At Phillips's shaft, in the 82 end north, the lode is 3 feet wide, and worth 10l, per fm. it hestopes in the back of this level north are looking pretty well. In the 52 north the lode is 1 ft. wide, worth 5l, per fm.; the stopes in the back of this level north are looking pretty well. In the 52 north the lode is 1 ft. wide, worth 5l, per fm.; the stopes in the back of this level are not looking quite so favourable, on the whole, as they have been. At Trelawny's shaft, in the 92 and north, the lode is 2 ft. wide, worth 7l, per fm.; in the same level south the lode is 3 ft. wide, worth 8l, per fm.; we hope to communicate this end with the 82, north of Phillips's shaft, by the end of this month; the stopes in the back of this level are looking fair, but the ground is hard. In the 72 north the lode is small, and rather poor at present; the stopes in the back are usually productive. In the wines staking under the 82 the lode is 4ft. wide, worth 7l, per fm. the the north mine, Smitti's shaft is sunk 4 fms. 1 ft. below the 50 fm. level, where the lode is 3 ft. wide, worth 6l, per fm.; the stopes in the back of the 40, north of this shaft, where the lode is tolerably good. On Thursday, the 3d inst., we shipped the cropparcel of ores solid Messra. Locke, Blackett, and Co., on the 13th September; it weighed 101 tons 7 cwts. 1 qr.

TRELEGH CONSOLS.

TRELEIGH CONSOLS.—On Christoe's lode, in the 90 fm. level, west of Garden's shaft, the lode is 3\frac{1}{4}\tau. wide, worth 3\frac{5}{4}\tau. per fm.; in the winze below the 90 fm. level the lode is 1\frac{1}{6}\tau. in the stopes above the 90 fm. level, west of the cross-cat on the north part, the lode is 20 in. wide, worth 2\frac{1}{2}\tau. per fm.; in the 80 fm. level, west of the cross-cat on the north part, the lode is 20 in. wide, with good stones of ore; in the 80 fm. level, east of Christoe's shaft, no lode taken down this week. In the 70 fm. level, west of Garden's, the lede is 2\frac{1}{6}\tau. wide, worth 5\triangle per fm.; in the winze below the 70 fm. level the lode is 1\frac{1}{6}\tau. wide, with stones of ore. On Parent lode, in the 62 fm. level, east of ditto, the lode is 1\frac{1}{6}\tau. wide, with good stones of ore; the 40 fm. level, south of ditto, is driving on a branch; the branch is 1\frac{1}{6}\tau. wide, with stones of ore. On the middle lode, in Burgess's shaft, a new shaft from the surface is shiking in the country to take the lode in the adit.

TRETHEVY—I was at the mine vesterday, but was prevented from going

west of the sack yet.

WEST WHEAL JEWEL.—In the 85 fm. level, west of Williams's crosscourse, on Wheal Jewel lode, the lode is unproductive for the present; this end is uspended for the time, and the men put to sink a winze in bottom of the 70 fm. level, on
Wheal Jewel lode—drove last mouth 2 fms. 2f. 6in.; in the 70 fm. level, west of Williams's cross-course, on same lode, the lode is worth 61, per fathom—drove last month
1 ft. 5 in. In the 57 fm. level, west of Hodges's cross-course, on Tolearne tin lode, the
lode is worth 264, per fm.—drove last month 2 fms.; in the 67 fm. level east, on same
lode, the lode is worth 264, per fm.—drove last month 3 fms. 1 ft. The
winze sinking in the bottom of deep adit, on Williams's cross-course, sunk last month
2 fms. 1 ft. 5 in. Treveeks winze, sinking in bottom of the 70 fathom level, on Wheal
Jewel lode, is holed to the 85 fm. level—samk last month 1 fm. 1 ft. 6 in. In the winze
sinking in bottom of the 30 fm. level, west of Quarry shaft, on Tolearne tin lode, the lode
is worth 77. per fm.—sunk last month 2 fms. 2 ft. Tregoning's shaft, sinking below the

30 fm. level, was sunk last month 1 fm. 2 ft. In the shallow adit level, west of Tragoning's shaft, on Tolcarne tin lode, the lode is worth 9 f. per fm.—drove last month 1 fm. 3 ft. 6 in. In the stopes in the back of the 12 fm. level, west of Pryor's winze, on the same lode, the lode is worth 14 f. per fm. : in the stopes in the bottom of the 12 fathom level, east of Tregoning's shaft, on the same lode, the lode is worth 28 f. per fm.; in the stopes in the bottom of this level, west of Tregoning's winze, on the same lode, the lode is worth 26 f. per fm. These stopes are working on tribute.

is worth 261, per fm. These stopes are working on tribute.

WEST WHEAL VIRGIN.—The shaftmen are getting on with the necessary work, preparatory to sinking the engine-shaft, in a very satisfactory manner, cutting fork for the lift, 12 ft. long, 3 ft. wide, and 5 ft. deep. After it is completed, they will cut a plat, and begin to sink under the 9 fm. level with all possible dispatch; the lode in the 9 fm. level, east of the engine-shaft, is 12 in, wide, and pretty good for tia; we are also working the ground over the 9 fm. level, west of the same shaft, and I am glad to say we have a good lode of fin going west in whole ground; and the backs of the 9 fm. level east are all very good tribute ground. On the whole, the mine never looked so well as at the present day.

WHEAL ARTHUR (CALSTOCK).—We have drawn up the first dam to surface, and cleared the level for saveral fathoms. We are within a few fathoms of the so-cond dam, which I hope to see to-day, when I expect we shall have some orey ground to work on.

WHEAL BAWDEN.—During the past month the lode in the adit level has not been so encouraging as at many other former points of the driving; however, the ode in the present end is now more promising and larger than for some considerable disace driven, being 18 in. whose containing spar, mundle, killas, carbonate of iron, and n places spots of lead and silver ore. I would also observe that there are several small ranches, containing a small portion of lead dropping in from the north wall, which may so considered a very favourable indication.

WHEAL CERGOR—Little has been done friend lest week him the nearly in the

In places spots of lead and silver ore. I would also observe that there are several small branches, containing a small portion of lead dropping in from the north wall, which may be considered a very favourable indication.

WHEAL CREBOR.—Little has been done (since last week) in the ends in the western part of the mine. The ladders are put down in Rundle shaft; they were completed on Saturday, and the men went to their places again on Monday morning. The 40 end, west of Rundles shaft, is still good, a very promising lode, about 18 in. wide, saving work; the men will not take down any of the lode for a week, as they are dissuing the same to save the ore botter. In the rise commenced in the back of the 40 on Monday last, the lode is large, and of a promising character. The adit end is without alteration. The 20 cross-cute, east of cross-cutes, et dill shaft, appears to be near a lode, as the end is stained throughout with gossan and strings of ore, and mundle dispersed through it; from present appearances, I have not the slightest doubt but that the western part, as it goes into new ground, will become a profitable mine. The 24, at Cock shaft, is without any material alteration; this part of the mine ought to be worked at deeper levels. The tributers are progressing, but cannot, as yet, say what they will do, being but a week since letting day. The ore will be dressed, at latest, by Tuesday next, when the samples shall at once be assayed and forwarded to you. The engine, pitwork, crusher, &c., are all in good working order. In the costeaning the results so far are, we have opened foru parallel lodes, most of them large. We have delayed opening the Crebor lodes in Mr. Beauford's land, in consequence of the fields we wanted being in turnips, and it was not convenient to the tenant to pull them before Wednesday.

WHEAL EMILY.—Since my last report to you, we have been busy dressing theore, and I shall speedily have a good pile ready for market; and I shall proceed with more speed when I get further help, having diffic

agreeable with your request, timber in bond, which will enable me to go on with more speed and asfety in securing the ground.

WHEAL HAMLYN.—As I see little or no change in the end since my last report, and the adit being 6 or 8 ft. deeper, I would now propose to suspend this end altogether; consequently, I have this morning measured the end, and find it driven 4 fms. 4 ft., and have put the men to drive west on the same lode towards the adit, where we shall she as deep as we can in driving. If we drive both ways of the adit, I think we shall hole in a few months, when we shall have good air, and be able to sink on the course of the lode, where we may expect to meet with ore that will pay cost.

WHEAL HARRIET.—I find we have expended 3422. 9s. 5d. since the commencement of the mine—that is, up to the end of August, for which we have cleared the shafts, and placed 40 fms. of ladders in one of them, cleared the adit 200 fms. on different lodes and cross-cuts, fixed two horse-whims, with chains and kibbles on them, smiths' shop, with bellows, &c., complete, and have driven the adit end on north lode shout 12 fms., sunk a new shaft from surface on the north lode 8 fms., driven 8 fms. north and south on a cross-course in search of the lode, where it is heaved by the cross-course, opened on a very fine goesan lode, with good yellow ore in it, at surface about 150 fms. further east than where it had been seen at the adit level, and cross-cuting in search of lodes in a valley about 200 fms. further east, near the great cross lode, that divides Dolcoath and Cook's Kitchen Mines, near which the largest deposits of cos have been found that the county ever produced. From the above, we have got at surface about 7 tons of copper ore. This mine, having Dolcoath and Stray Park on the north, and Condurow on the south, with the fine specimens of copper which have been produced on different lodes, is considered worth a steam-engine at once; but, from the large extent of ground unexplored in the eastern part of the set, I strongly

unexplored in the eastern part of the set, I strongly recommend the shareholders expending more money in opening on the lodes in that part, before deciding on the spot where the engine shall be erected.

WHEAL LANGFORD.—I beg to hand you the remainder of the vouchers for August cost; I received the offer for our parcel of silver from the Tamar Smelting Works this morning, 132. 7s. per cvt., or 2474, per ton; we have only sampled one pile, weighing about 6 cvts, 2 qrs., having some more to add to the other pile named in my last report. We have broken four bags of good work for silver since my last, and from the appearance of the lode I think we shall soon have an improvement. The copper lode is looking well at present, and, immediately our stamps are erected, shall be able to make monthly returns.

onthly returns.

Oct. 10.—We have driven about 2½ fathoms west on the course of the copper lode from Langford shaft, and find the lode is from 4 to 5 ft. wide, the leader part of which is about 20 in. wide, producing rich saving work for copper. We are only 7½ fms. deep from surface in this part of the mine; we scarcely ever find a lode so productive as the present at such a shallow level, and when the engine is erected, and we develope this lode at a greater deplt, I have no doubt but the develutives will be handsomely remunerated for the list fortnight, in consequence of the surface water coming down so much; we should not be able to save the silver without great waste, but we have good saving work in the level; the stopes in the back of this level are much improved during the last week, and we have broken about 15 cwts. of good saving work for silver. We have sold the parcel of silver named in my last—viz.: 5 cwts. 2 qrs., at 124. 7s. por ew., to the Tamar Smelting-Works. We are preparing another parcel as fast as possible, and hope, in about five days from this date, to have about 2 tons of silver or ready for the market, of a moderate good quality. We have cleared the adit about 27 fms. west of Vivian's shaft, and have from 4 to 5 ms. more to clear to get under Broad's shaft.

WHEAL MARY ANN.—Pollard's shaft is sunk 64 fms. under the 66 fm.

have from 4 to 5 fms. more to clear to get under Broad's shaft.

WHEAL MARY ANN.—Pollard's shaft is sunk 6½ fms. under the 60 fm. level; the part of the lode that is in the shaft is 2½ ft. wide, and worth 10l. per fathom. The 60 fm. level in Pollard's and a Barratt's shafts is holed. The lode in the 60 fm. level, south of Pollard's shaft, is 2 ft. wide, and worth 9l, per fathom. The lode in the 30 fm. level, south of the shaft, is 1½ ft. wide, and worth 6l, per fathom. The lode in the winks sinking under the 40 fm. level is 1½ ft. wide, and worth 6l, per fathom. The lode in the 70 fm. level, south of the boundary, is 3½ ft. wide, and worth 9l, per fm. The lode in Barratt's shaft is 4 ft. wide, and worth 20l, per fm. The lode in Barratt's shaft is 4 ft. wide, and worth 20l, per fm. The lode in Barratt's shaft is 4 ft. wide, and worth 5l, per fm. And 5l ft. wide, and worth 5l ft. The shaft is 4 ft. wide, and worth 5l ft. The shaft is 4 ft. wide, and worth 5l ft. wide, and worth 5l ft. The shaft is 4 ft. wide, and worth 5l ft. wide, and worth 5l ft. The shaft is 4 ft. wide, and worth 5l ft. wide, and worth 5l ft. The shaft is 4 ft. wide, and worth 5l ft. wide, and worth 5l ft. wide, and worth 5l ft. The shaft is 4 ft. wide, and worth 5l ft. wide, and worth 5l ft. The shaft is 4 ft. wide, and 5l ft. wide, and worth 5l ft. The shaft is 4 ft. wide, and worth 5l f

viz.: No. 1 to Thomas Somers, Esq., at 191. 15s. 6d. per ton, and No. 2 to the Tamar Smelting Company, at 91. 1s. 6d. per ton, which realised upwarts of 25001.

WHEAL PENHALE.—I do not find much alteration in the lode in the 40 fm. level end south; it continues large, producing good stones of lead and copper, but not rich; we have commenced driving north in this level by six mon; this end opens better than the south. The lode in the north end of the 30 fm, level has been hove a little to the east this week by a slide, but coming in on it again, it is found to be looking better than to the south of the slide. The caunter lode, which has been intersected in the south end at this level, continues very productive; it is about 23 ft. wide, with a leader of about 1 ft. wide, nearly all solid lead; the ground about it is very good, and, with the lode, promises to be of very great importance to the mine: 1 my opinion, we shall on this lode find a great amount of ore. The north end in the 20 fm. level continues without much alteration; the lode in it is about 3 ft. wide, producing good work.

WHEAL TREMAYNE.—At Madron's shaft, on the south lode, in the 70 fm. level west, the lode is 2ft. wide, court 18. 18 in. wide, opening tribute ground. At Laurie's shaft, on the north lode, in the 30 fm. level west, the lode is large and unproductive. At middle whim-shaft, on the north lode, in the as ane level, we have not intersected the lode yet. In the cross-cut driving south of said shaft in the 10 fm. level, to intersect the north lode, the ground is favourable for driving. At Champion's shaft, rod shaft on the south lode, the lode is 2 ft. wide, unproductive; in the cross-cut driving south of said shaft in the 10 fm. level, to intersect the north lode, the ground is favourable for driving. At Champion's shaft, not he north lode, the form the bottom is 3ft. wide, coupsed of flookam, mundie, and caples, with stones of ore—the lode in the bottom side, is 15 in. wide, worth 9c. per fm. cittle and captes the lode is 16 in. wide, wo the lode in the bottom is 3 ft. wide, composed of flookan, mundle, and caples, with of ore—the lode in the bottom of this shaft has a very promising appearance. If 40 fm. level east the lode is 15 in. wide, worth 9t, per fm.; ditto west, the lode is wide, producing good stones of ore, not to much value. In the winze sinking below 30 fm. level, east of shaft, the lode is 1 ft. wide, worth 5t. per fm.; in the winze and si west of shaft, sinking below 10 fm. level, driving west of west whim-shaft, or the capital shaft per late 13 fm. level, driving west of west whim-shaft, or the capital shaft and the shaft of the capital shaft of the In the 30 fm. level, driving west of west whim-shaft, on the south lode, the lode is 15 in. wide, opening tribute ground. At new shaft, in the 35 fm. level, driving west on a south lode, the lode is 6 in. wide, worth 31. per fathom. In the boundary engine-shaft, sinking-below the 53 fm. level, the branches are worth 601. per fathom. Our tribute department is looking much the same as if has for some time past.

is looking much the same as it has for some time past.

WHEAL VINCENT.—The lode in the east end is 1 ft. wide, not rich, carrying easy ground by the side; at this end we have 6 men at work; we are also stoping the back of this end by 4 men; the lode in these stopes is 3 ft. 6 in. wide, producing tin. The lode in the west end is much the same as it was last week, carrying the and good ground. I calculate that we shall have about 25 cwts. ready for market by the end of this month. I expected we should have had more tin by this time; but our back has not proved so well in going up, as it was in the back of the level, being so near the surface; the bottom of the level is very good; we ought to be now sinking to a deeper level.

Peter Tavy and Mary Tavy.—At this mine they are now driving on the 50 fathom level; the water from the last working is all out, and the work brought to grass is of good quality. The mine is under the superintendence of Capt. John Lean, of Wheal Franco; it has now been in work about aix months. The balance of cash in hand is stated to be 13001, and it is hoped, before this is expended, that profitable returns will be given. Wheal Friendship, the adjoining mine, is supposed to have given a profit at different periods of 300,0002. The mine during the week was visited by Mr. Gibson, the chairman, and the following adventurers, who are largely interested—Messrs. Collison, Robert Hill, and F. Heading.

MAY AND IN WEIGHTLE

FOREIGN MINES

A	TEN MINING ASSOCIATION				ed	pro	duce	for	Au	gust ;-
<u>m</u>	Mines	To	ns of	Ore.	1	Per	Cent.		Fine	e Copper.
32	Raipus			44.1			7			3.15
70	Old Mine						5			3.25
	United Mines						4 .			0.32
	Michell's		16			. 1	61			1.04
dil	Mancur's					. 1	0			0.80
601	Carl Johan's		. 3			. 1	B			0.24
ũά	Ryper's		14	****		. 1	3			0.33
	FIRST TOTAL SETTING BERLEVILLE - 217-224-0	H ₅ /s	-						15%	THE PARTY NAMED IN
	Total tons		149				he arr	1		9-12
	Mindre Descript former than	04	£ 4	2 21 4		242	Olaver A			

Missing Report from the 27th Aug., to the 17th Sept.

Raipat.—We have still no improvement to note here; but trust shortly to have the pleasure of reporting more favourably. In the large stope, west of Mohk's shaft, the ground still continues of a hard and dredgy nature; consequently, the men have been inbouring at a great disadvantage, and we have been disappointed in the produce which we had here hoped to have obtained. In the scottiern cross-cut, in the 20 fm. workings, there is no alteration for the better; in the northern cross-cut, however, the lode has increased in stan, and is at the present moment nearly 6 ft. wide, and altogether assuming a very favourable appearance; the nature of the lode is speedy fn working. The ground in the shallow adit workings has become very hard and finity; at the same time, it is producing a small quantity of rich purple ores. In course of a few days, we expect to make a junction with the northern cross-cut to nake a junction with the northern cross-cut in Indications, we may expect the whole shortly.

United Misse.—The workings in this mine have undergone no change since my last report. The improvement noted on the new discovery still holds good, and the lode is very favourable for exploring. The tributers still continue to produce a mail quantity of good one from the beeks of Woodfall's lode, where the prospects are equally promising. Wild Misse.—The unbrace operations continue to show good results, and the prospects have, during the last week, somewhat improved. Slung's sink developes itself favourably; but we are subject to great difficulties in consequence of the vature, which latterly has much increased. The new sink towards the north-east is considerably imprived; the lode, however, is still hard and difficult to excavate. We intend employing 16 men in this sink next month for the purpose of enlarging the workings, and laying open ground for our tributore during the winter. The wink on the main lode, northwest of Bergmester's, is still poor, and the ground is rather

increased.

Michells.—We have been obliged to stop the level in the new sink, in consequence of the great influx of water, but hope to resume these workings as soon as the winter sets in. The stopes on Kellen's lode are somewhat improved, and the prospects are equally accurable. At this mine we have lately found a uper lode at the surface to the south of the old workings; it is small, but yields some good returns of ore, and next month we propose employing four men in exploring it.

Carl Jokas's.—No change is to be observed in the sink since my last report; some good patches of ore are occasionally found, but the ground being very hard, the tributers, in consequence, make but small returns.

IMPERIAL BRAZILIAN MINING ASSOCIATION:-

instance. July 23.—I much regret that I have nothing very interesting to inform you although we have had a little work for the washing-house from the new shoot in the k of the 14 for level, the mine has been very poor. We shall push on with all speed driving of the 24, or present bottom level; this will open a new mine to us, and I searly hope new resources also.

Ongo Seco presents nothing requiring comment, with the exception that all the rails refred at the mine have been laid down near the mouth of the tunnel. The produce pold for the last 10 days is 3 lbs. 10 ozs. 10 dwts., and derived as follows:—

good for the last 10 days is 3 lbs. 10 ozs. 10 dwis,, and derived as follows:—

Idamid's stamps. Jbz: 1 0 2 0
3 4 0
3 4 0
4 Sapplied from miscellaneous staff.

Iker's stamps 1 0 13 0
5 Supplied principally through the tunnel.

Diville's covers: 0 7 2 0
10 0 0 1 0
10 No stamping, but from digging up the covers.

Total Lbs. 3 10 10 0

At dompo there is nothing calling for particular remark. The produce is 3 lbs. 5 czs. 5 dwts, and derived, as follows, from 78 stamp-heads.

Great Western stamps ... Lbs. 0 3 0 0 Derived from Bray's burrow, and the corGoddsmid's stamps ... 0 9 18 0. Derived from Bray's burrow, and the corGoddsmid's stamps ... 0 10 8 0 From the tunnel, and some stuff lying near the content of the content of the great regularity, and the progress has been satisfactory. The 24 fm. level, however, has not yet intersected any of the other gold shoots, notwithstanding its having passed the line of direction of one of them, which only shows a few particles of gold; this shoot, therefore, must have made a turn in its descent, or, perhaps (which is very probable), merged into one of the others. The remaining points in the mine have been very poor, and, consequently, we have had no work for the washing-house since my last. All our machinery and pump-work is now in excellent order, and I audicipate a continuance of the prosecution of our deepest workings without interruption. We have now about 10 fms. to drive the 24 fm. level, to communicate with Gibbers shaft; when this is done the mine will be thoroughly ventilated, and backs laid open on all the different versart, our stamps produce is, consequently, very small. In my next respects, I hope to give you more general information respecting the present state and proposed future proceedings at Gongo Soco.

LINARES MINES.—The following has been received from the content of the content o

Account of Ore in Stock	=104 22	1 0
Remaining at Linares	152	1 14 0
On passage, per the Farmer Total in store Tous Basilia Tous " Elles	11 34	6
Total on passage	60	18

ROYAL SANTIAGO MINING COMPANY:-

ST. JOHN DEL REY MINING COMPANY:—

Morro Velho, July 18.—Gold extracted to date, 6314joitavas, from 389-27 cubic feet of sand (result of 10 days' stamping) = 16-22 cits, per cubic foot. Stamps working 17 days, average 25 heads. The supply of stone from the mine has been ample, but I regret to say, that in the two Cachociras, but more especially in the western, the deterioration of quality noticed in my last continues unabated, or if there be any difference it is for the worse. We are now stoping in that part of the West Cachocira which formerly furnished the richest ore, now it yields nothing but a mas of hard white quarts of comparatively little value (probably not more than 27 olts, per ton), and should this state of things not change for the better, we cannot expect to improve on the yield of last month.

July 28.—Gold extracted to date, 13,59 olts, from 321-58 cubic feet of sand (result of 21 days' stamping) = 16-66 oits, per cubic foot. Stamps working 27 days, average heads. Supply of stone from the mine is ample as regards quantity. In the Cachocira, indeed, the stopes are beginning to be encumbered by the quantity of broken stone which our haufing power cannot take out of the way fast enough, and Capt. Trelear is, in consequence, preparing to reacove some of the force now at the Middle Cachocira, and to resume working that part of the East Cachocira which has been for some time suspended; this measure is also rendered advisable, to enable us to mix some of the good ore of the East Cachocira with the very inferior stone now poured on our spalling, floor in such large quantities from the Middle and West Cachocira. Measurable 1 am glad to inform you, that within the last two or three days the stone from the Middle Cachocira seems a shade better than it has been.

August 8.—The produces for July was 21,318 oitavas, equal to 203-83 lbs. troy—being 21,175 oits, from 5492 tons of ore, yielding 3-85 oits, per ton, and 43 oits, from the arrastre.—Stamps working during the month, average 85 heads. The supply of or

20,157 oitavas, at 7s. 8d. 7728 17 9

On looking through the cost-sheet, you will see that it has been swelled beyond its ridinary proportions by the following heavy items:—

Fron pipes. Rs. 2000
Chain 2365
Ratchett 1515

Together 5880 at 27id. £673 15 0

much news attention to the washing-house, and having now extensive rigin ground to write. At the washing-house, and a provides in 3 ha. 5 and 4 with a strain provides in 3 ha. 5 and 5 dws., and derived, as follows, from 2 is sample-heads.

Together v. Strain provides in 3 ha. 5 and 5 dws., and derived, as follows, from 2 is sample-heads.

Together v. Strain provides in 3 ha. 5 and 5 dws., and derived, as follows, from 2 is sample-heads.

Together v. Strain provides in 3 ha. 5 and 5 dws., and the corresponding to the mouth of it, the greater part from the provides in 3 ha. 5 and 5 feet and 1 ha. 5 dws., and the corresponding to the mouth of it, the greater part from the provides in 3 ha. 5 and 5 feet and 5

UNITED MEXICAN MINING ASSOCIATION:-

UNITED MEXICAN MINING ASSOCIATION:—

Guanazualo, August 30.—Mire or RAYAR—The rich thread of ore in Villaseca has maintained its quality to the has fallen off in quantity, andered so much that, in three weeks, only 36 arrobas could be collected, which, however, brought \$2400—being some 40 per cent. above the preceding sais, though its quality, as already indicated, was the same. The extraction of picked eves in the present month is less in quantity, but beiter in quality by pressen of a smaller proportion of ordinary learns than July. To umal amount of returns over expenses, as in the last part of the present in the present and the submitted of the present and the submitted in the value of the present, and to utilize the year canno, or level, along the vein to the north-week, in order to follow up these bunches of sulphurets, and will be continued until the whole win be outively pleaced by it, so that his work, will in the end regulate the resumption or otherwise of its upper associate. The prespects of this mine are now more encouraging than horarctorie, but required time to be developed.

Justice of the present of the prespects of the smine are now more encouraging than the required the to be developed.

Justice of the present of the present of the smine are now more encouraging than the state of the present of the present of the smine are now more encouraging than the present of the present

not necessary and the process of deepening the shart. The works protocol, every fair trial before going to the assume of the rock, will not be expensive, and and an endity.

SAMUR PAUL PARKMAN

TAMAR SILVER-LEAD MINING COMPANY

At the annual general meeting of shareholders, held at Salvador House, Bishopsgate, on Monday, the 'th instant, P. N. JOHNSON, Eag. P.R.S., in the chair,

The CHARMAN having stated that the reason of his occupying the present position areas from the indisposition of their regular chairman, at the same time observed that he was ready to answer any question, or to give every explanation that might be required; in the meantime, he considered that the directors' report, about to be submitted, would give ever/information.

Mr. STARSBY then read the following reports:—

The operations of the mine, during the past vestew monts, have been carried on will steadines, and have, for the first 10 months, produced regular profits: it he share the regular profits of the state of the same of this loss is attributed to the fact of the inability of the incline white engine to raise the ore broken in the 145 and other levels, in consequence of the length of the same of this loss is attributed to the fact of the inability of the incline white this work was going on, no ore could be brought up from thence, and this work has a first produced of the country of the same of the same of the same of the loss of the same of the sa

At a general meeting of shareholders, held here on the 7th February last, the directors explained to you the then position of the smelting-works, and took your opinion on their proposition to provide a capital required at that time; they regret that you did not then agree with their proposition to make a call of 10s, per share, rather then, as was proposed by that meeting, to hold back the profits of the mine that out put that time provided much more than half the required sum; the operations have, in consequence, the pied, and unfavourable sales have been of necessity made in consequence. The directors, feeling that there should be no further delay in placing the establishment on the footing which it cought to be placed upon, have called upon the shareholders, within the time previded they themselves having already paid this call on their shares to the bankers to the amount they for close upon 40001; they have also communicated with some of their more immediate of close upon 40001; they have also communicated with some of their more immediate of the sould not to the credit of the conjunt; they look, therefore, to their fellow-shareholders with some confidence, and, after onch an example, to the punctual payment of their several proportions.

MANAGES SEPOST.**

of close upon 4000M; they have also communicated with some of their more immension friends, and doubt not that during the present week at least 2000M more of the call will be paid in to the credit of the company; they look, therefore, to their fellow-shareholders with some confidences, and, after such an example, to the punctual payment of their serural proportions.

EAMAGEN REPORT.**

At our last meeting it proposed a call upon the share, in order to supply a working capital for the use of the smelting department, which was negatived, by your not considering it desirable, and roomeding the directors to apply the accumulating profits of the mine for this purpose; as that time, I expressed my opinion that such application would not be sufficient for the purpose; as that time, I expressed my opinion that such application would not be sufficient for the propose intended, and, I regret to say, such has proved the case, as the beautiful to the such as a position to keep the lead produced from the stock of ores for a good market, and have been prevented from competing with other smelters. The loss on the operations have partly occurred from the great competition in purchasing ores, partly from the drop in the price of lead, and partly from bidding so high a price for the Tamar Mines' ores, for their fall protection; but although this latter swells out the apparent loss to nearly 1600%, it has been, in fact, no loss to the company, beyond the small amount of royalties paid upon the difference of real market value and the prices at which the mine had credit beyond such value; the real mischied has been the want of anticent working capital, as it can be proved that, had we been in a position to use the desilverizing process now applied, and not been unfortunate in regard to the falling in the price of lead, the works would have left a profit, although but small, from the severe competition. I trust itsal you know, in some eases, our competitors and, at the same time, be a protection to the ores now applied, and not

some years back are found to answer so as to reduce the cast or hand, and prevent a waste of lead. The mine agent's report will more particularly describe the operations of the last year.—Pancival. N. JOHNSON.

Oct. 1.—In handing you the annual report of these mines, I beg to commence with the south mine. The engine-shaft has been sunk, during the past year, 5 fms., which is now down to the 205 fm. level, and the end at this point driven south on the course of the lode is fathoms. The different fewel have been extended on the course of the lode 256 fms.—the greater part of which has been through productive ground; but the 160 has yielded the greatest quantity of ore. An Impertant feature is the 175 fm. level, which is getting near the middle silde, where we expect to cut the same ran of ore ground which we have just passed through in the 160 fm. level; and, in order to make this available, we have erected in the 115 fm. level a steam-engine of 20-horse power, and also sunk Spurgin's shaft 8 fms. selow the 145; this shaft will greatly facilitate our operations throughout the mine, as it will go down in the centre of the productive ground, and also when commanicated and sunk below the 250 (the present bottom level), will be the main engine-shaft, as it will lift the water to the large pumping engine, and the stuff or draining at the incline and engine-shaft, they have been such that the productive part of the lode, without the expense of driving through the hard bar of ground adjoining the engine-shaft. Respecting future prospects, I have to say it will take about six months to communicate, the 160 end with Spurgin's shaft; and, when this is done, it will enable us to open more ground; and I have every reason to believe we shall increase our samplings. Walker's engine, in the 115 fathom level, was put to work on the 26th Sept., and answers the purpose admirably well. At the north mine the engine-shaft has been sunk, during the last 12 months, 9 fms., which is now down to the 96 fm. level, and a cross-cut driven w

The accounts were submitted, which led to a long and desultory discussion, in consequence of a loss appearing on part of the property of about 3000L, which Mr. BAWDEN considered might be avoided in future, by disposing of the works, and would have moved a resolution to that effect, but no seconder appearing, and the CHAIRMAN having explained that the call now made was merely to provide working capital, and that the directors, holding nearly one-third of the adventure, had already paid their call mot the bankers, amounting to nearly 4000L, he trusted the other adventurers would cheerfully respond, as he entertained no doubt of the ultimate success of the undertaking. The adventurers should take into account, that since the establishment of the company 15,000L had been divided in bonus and dividends; and he considered it rather ungracious, because they had not been so prosperous during the past year—owing to a want of capital—that any exception should be made to the report.—After some further remarks, the report and accounts were unanimously adopted, and a vote of thanks having been passed to the chairman and directors, the meeting separated. mously adopted, and a vote of the directors, the meeting separated.

COMBLAWN MINING COMPANY.

COMBLAWN MINING COMPANY.

At a special general meeting of adventurers, held at the offices, King-street, Cheapside.—Henry Treguess Smith, Eq., in the chair,—the usual preliminary business having been transacted, the balance-sheet was read, showing —Costs at the mine to the end of August, and in London to end of September, 41794. 128. 7d.; arrears of calls and cash at bankers, 1301. 128. —48101. 48. 7d.—Calls, 33671. 15s.; liabilities, 9221. 9s. 7d. —4310. 4s. 7d.—leaving a balance against the mine of 7914. 17s. 7d.—Messrs. Wright and Weldon (adventurers) were appointed auditors.—A report on the mine, dated the 7th inst., from Capt. Penaluna, was read, and it was resolved, the mine being in a fit state for inspection, that Capt. Puckey (of Par Consols Mine), and Mr. A. Murray, jun., be requested to inspect and report fully on the prospects of the mine without delay.—A further instalment of 20s. per share, out of the call of 21. per share made on the 15th August last, was ordered to be paid in 14 days.

EAST TAMAR CONSOLS MINING COMPANY.

EAST TAMAR CONSOLS MINING COMPANY.

The usual two-monthly meeting of shareholders was held at the offices, Treadneedle-street, on Tuesday, the 8th inst.,

Treadneedle-street, on Tuesday, the 8th inst.,

The minutes of the last meeting were confirmed, and the account of receipts and expenditure was produced, showing a balance in favour of the mine of 4537. 8s. id.; and also an account of receipts and payments before the meeting on the 10th December next, showing a balance of payments over receipts of 8917. 11s. 11d.; and, finally, an account of assets and liabilities, showing a balance of assets ever liabilities, of 7947. 0s. 1d., all of which accounts were passed. The cost-sheets of the mine for July and August, with the merchants' bills and vouchers, were examined and passed. A call of 2s. per share was made, to be paid on or before the 2d of November.

The following report, from Mr. J. Wolferstan, was read to the meeting:—

No alteration of importance has taken place in any part of this mine during the past week, and I am, therefore, unable to make any addition to my last report, as regards the underground operations. The late leavy rains have lacrossed the water considerably, and we are now obliged to work the recently creeked engine at Guilett's shart for a few hours daily, which keeps the whole of the south part of the mine entertually drained. We have now 50 men working in this part of the mine on tribute, at an average of 10s. in It, and there is every prospect of their greating fair wages, and making a good profit for the adventurers. Guilett's engine-shart is now being out down, so as to make it sufficiently large; I expect the men will make it complete down to the 40 fm. level by the end of the month, when we shall be able to clear this level and my open more ground, and thereby, in all probability, increase the returns. At the same time, I condiently ant-cipate being able to decrease the cost, as the whole of our surface requirements are now complete, and the expenditure, therefore, will be limited t

SOUTH TAMAR CONSOLS MINING COMPANY.

The usual two-monthly meeting of adventurers was held at the offices, Thread-sedic-street, on Tuesday, the 8th inst., GEORGE MACKAY, Esq., in the chair.

GEORGE MACKAY, Esq., in the chair.

The financial statement was presented, showing the account of receipts and expenditure, by which a balance of 10021. 7s. appears in favour of the mine; and also an account of receipts and payments before the meeting on the 10th December next, showing a balance of payments over receipts of 3751. 3s.; and finally an account of assets and liabilities, showing a balance of assets over liabilities of 1424. 17s., all which accounts were passed. The cost-sheets for July and August, with the merchants bills, were exhibited and passed.

The following report, from Mr. James Wolferstan, was read:

I have us pleasure to inform you that, since my last report, the lode in the engine-shaft, also in the north and south ends in the 115 fm. level, and in the north ends in the 100 fm. level, has been considerably improved, and is looking better than at any former

period. The south end in the 100 fm. level is not looking so well; the lode has become smaller, and not so productive; it is probable, however, that this is only a temporary fluctuation, as we had a very good lode for many fm. farther south, in the 90 fm. level. In the 80 fm. level there is a large strong lode in the present end, and we are in daily expectation of its becoming more productive. In other parts of the mine there is no elication to notice. We shall sample on the 16th inst., and I have no doubt we shall have 90 toms of ere, the produce of August and September. Notwithstanding the late beavy rains, we have no increase of water, which may be attributed to the north part of the mine being drained by Guillett's engine. The louser for the new stamps' engine is to a forward state, and will be ready by the time the engine is to be delivered on the mine.

GRAMBLER AND ST. AUBYN MINING COMPANY.

At a meeting of adventurers, held at the mine, on the 8th inst., the accounts were presented, showing.—Labour cost for March, April, May, June, July, and August, 4761. 15s. 8d.; merchants' bills, 2111. 9s. 8d. —6881. 5s. 4d.—By copper ores sold 28th March, 741. 5s. 8d.; ditto 30th May, 391. 12s. 2d.; sundry sales of tiustuff, 511. 10s. 11d. (deduct lord's duss, 101. 19s. 3d.) = 1544. 9s. 6d.—showing loss of 5331. 15s. 10d.—Balance in hand end of Feb., 581. 16s. 8d.; call made 9th April of 21. per share, 4861. —5441. 16s. 8d.; leaves now in hand, 11f. 0s. 10d.—The accounts having been examined and allowed, a call of 22. per share was made, for the further prosecution of the wine.

The following report, from Capts. Wm. Richards and J. Michell, was read:—October 8.—Having completed the horizontal rods, and placed the pitwork in Simmons's

October 8.—Having completed the horizontal rods, and placed the pitwork in Simmona's shaft, we are now in course of sinking said shaft, in which the lode is 4 ft. wide, a very kindly gossan, with good stones of ore. The shaft is about 15 fms, under the surface, and we have about 16 fms, more to sink it to the deep adit, which we calculate will take about four months. The said end is within about 16 fms, of said shaft, lode \$\frac{3}{2}\$ to 3 ft. wide, a very promising appearance, with good stones of ore. This, we expect, will also take about four months to drive under Simmona's shaft; we are also driving a 25 fathom level under adit, north from the old mine, to intersect a middle lode. These are all we are doing at present, except three pitches working on the old lode, at 12s. tribute.

WHEAL TREFUSIS MINING COMPANY

WHEAL TREFUSIS MINING COMPANY.

At a meeting of adventurers held at the mine, on the 2d inst., a statement of accounts for July and Aug. was presented, showing—Labour cost, 1864. 12s. 2d.; merchants' bills, 2221. 14s. 4d.; balance against mine, end of June, 6477. 10s. 8d. = 1056f. 17s. 2d.—By call, 636f. 6s.: leaving balance against adventurers of 420l. 11s. 2d.—to defray which, and to carry on the future workings of the mine, a call of 1l. per share was made.—The following report, from Captain Thomas Richards, was read to the meeting:—

Oct. 2.—Since the last meeting, held 30th of July, our principal object of operation has been directed towards alking the engine-shaft below the 14 fm. lovel; tefore commencing to do which, we had to cut open the old shaft, and fix the pitwork. The shaft is sunk 5; fms. below the 14 fm. lovel, and, in course of sinking, we have had various "droppers" or branches underlaying south towards the lode, most of which produce copper ore, and, from the change that has taken place in the grantle, it is thought a good indication for copper ore, although it is harder ground. The lode in the 14 fahms level is south of the shaft 15 faet, with a north underlie, from all we have seen, not exceeding 6 in. in a fm.; consequently, unless an increased underlie, we shall shak some deptivertical, before capecting to see the lode interaceted in sinking the engine-shaft. However, it is the present intention to sink the shaft 12 fms. below the 14 fm. level, central that we have commenced a "side tyee" to get into the lovel further east, in which we have driven 20 fms., all in timber ground, and expect to hole to the add in the course of the each. When accomplished, it will give an opportunity of judging the appearance of the lode as left off about 24 years since.

RHOSWYDOL MINING COMPANY.

ground, and expect to hole to the adit in the course of the week. When accomplished, it will give an opportunity of judging the appearance of the lode as left off about 24 years since.

RHOSWYDOL MINING COMPANY.

The bi-monthly meeting was held at the offices of the company, Old Jewry, on Tuesday, the 8th instant.

The minutes of the proceedings at the last meeting of adventurers having been read, the SECRETARY rend the report of the finance committee, and the accounts, which will be found subjoined. The report along the entered, and the accounts, which will be found subjoined. The report having been read, and the question put by the CHAIRMAN as to its adoption, Mr. Excisian rose, not only to comment on the report that day presented, but also to offer some few observations consequent on his visit to the mine. In adverting to the report, he expressed himself as dissatisfied with its contents being vague; at the same time, that he was surprised Capt. Davies should not have been present to afford explanation, more especially as Mr. Cumming was called upon to make a special report on the prasent occasion, which involved many points affecting the character of Mr. Davies, who should, in his opinion, have been present. He (Mr. English) proceeded to notice the various observations in the report, and particularly adverted to the "newly cut lode," where "there is a string of black-jack an inch wide, with occasional sprigs of lead ore." The report stated, that in the opinion of Capt. Davies he believed it could not fail in making lead ore; and, furthermore, that the discovery had "created the highest expectations of success in his (my) mind." Mr. English, in conclusion, expressed his opinion that no confidence could be reposed in the manager.

Mr. G. HADLEY, the purser, wished to say a word or two on the subject—some remarks had been made as to the outlay upon the mine, which was represented to be 28,0004. Os 0,0004. It was only for him to refer to the books of the company, whereby it would be seen that not more than one-

lengthened conversation, which terminated in nothing, the meeting separated. The following report, from Capt, Davies, was read to the meeting:—

Prosser's level has been driven b fms. 1 ft. 10 in. further east along the lode; the strings of lead ore have quite disappeared from the lode, so that it now continues poor. In the roof of Smithy level, 2 fm. 0 ft. 8 in. were driven to communicate with the 17 fm. level winze; this has been accomplished. Davies' cross-cut has been driven 13 fms. 3 ft. further south. At the beginning of the present week, a cross-course running about 20° cast of north was intersected; this, at its junction with the lode, no doubt will make ore. The total length of the cross-cut is 35 fms. 4 ft. About 21 fms. is the distance to be again driven. We have laid down a railway, and set air-pipes, so as to facilitate the working as much as possible. Hadley's cross-cut has been driven 15 fms. 1 ft. further south. A fortnight ago, I reported we had intersected and cut through the main south lode, which turned out poor. At the same time I stated it was not safe of drive along that lode in-mediately, but rather to drive further south, as a more mineralised part of the lode might be near. On finding the main south lode so poor, in Hadley's cross-cut, I made a series of dislings and surveys of that lode, on the surface and in the old works, when I was surprised to find that there were two lodes running nearly parallel to each other, and with the same dip, through the old works for a distance of about 62, a few fathoms west of Hadley's cross-cut. (this was demonatated before Captain Whitmore on Wednesday last, who was so kind as to accompany me, and see the actual dialings on the surface, and in Hadley's cross-cut. (this was demonatated before Captain Whitmore on Wednesday last, who was so kind as to accompany me, and see the actual dialings on the surface, and in that deed, I believe it cannot fall in making lead or. As yet, we have only taken down about a foot of the lode, but it has created the high making lead orc. As yet, we have only taken down about a foot of the lode, but it has created the highest expectation of success in my mind. I enclose you aplan of the cross-cut and two lodes as they have been out; the total length of the cross-cut is 32 fms. 4 ft. In the 10 fm. level, 12 fms. of orey ground have been stoped, will yield about 5 ewts. to the fm. In the 17 fm. level, 11 fms. of orey ground have been stoped, will yield about 5 ewts. to the fm. The Hope level was deliven 25 fms. 4 ft. About 14 fms. more will intersect the south lode. Our cargo of ore shipped on the 6th September, 13 tons, sold at 10.1 sx. per ton. During the last three weeksour dressers have been engaged chighly on the slime and waste, about two tons of which are dressed. They are now engaged dressing the ore raised during the last month. Our lettings for October are Prossers level, 5 men at 4L per fm.; Parker's cross-cut, 5 men, at 3L per fm.; Hadley's cross-cut, 5 men, at 3L per fm.; Hadley's cross-cut, 5 men, at 3L per fm.; The stope in back and bottom of 17 fm. level, at 12s. per fm., including limbering; six men to stope in back and bottom of 17 fm. level, at 25s. per fm., and to drive the lovel further east, one fm. for 58s.; six men driving the Hope level at 38s. per fm. As soons at he men cut through the newly-discovered iode in Hadley's cross-cut, they will drive east and west en the course of the lode, for which we will have to advance the price at little.

From a statement of working for two months, endling Sentember; it appeared.

and west en the course of the lode, for which we will have to advance the price a little.

From a statement of working for two months, ending September, it appeared that the number of fathoms driven was 65, and stoped 25; making in all 89, of which 64 must be considered barren ground, leaving the number of fathoms of orey ground stoped 25, at an average cost of 47s, per fathom for driving, and 32s, 9d, per fathom for stoping.

The following is the statement of accounts for Aug. and Sept.:—Balance from last account, 431l. 5s. 6d.; expenses for Aug., 185l. 7s. 10d.; ditto Sept.,

158l. 17a. 11d.; salary to purser, 12l. 4a. 10d. — 757l. 16a. 1d. — Proceeds, per Friendskip, 59l. 3a. 5d.; received on account of call, 20sl. 2a.: leaving balance against the mine of 475l. 10a. 8d. — Net proceeds of the cargo, per Friendskip, 127l. 2a. 4d.; arrears on calls, 169l. 4s.

[Mr. English having made a formal and written application for liberty to visit and inspect the mines, attended by a practical mining agent, the same was assented to, and we are given to understand that Capts. Sampson Treve than and Verran will accompany that gentleman to inspect and report on the

DYFNGWM MINING COMPANY.

DYFNGWM MINING COMPANY.

The bi-monthly meeting of adventurers in this mine was hold at the offices of the company, on Wednesday, the 9th inst.

P. D. Hadow, Esq., in the chair.

The minutes of the preceding meeting having been read, Mr. Hadley (the secretary) stated that Capt. Hosking had not transmitted the accounts, and, consequently, he was not in a position to submit them. He had, however, received a letter from their agent, which, with the report, he would read.

The report having been read, with a financial account made up by the pursers at the moment, there being no secounts rendered to the meeting, the Chairman put the question as to whether the same should be allowed and passed, which appeared to be very likely to take place, when Mr. English rose for the purpose of making some few observations as the result of one or more visits to the mine. That gentleman stated that the bargains taken by the men were excessive, so far as the company was concerned—84 or 94. per month being paid to the men; while the ordinary wages did not exceed 55s. to 60s. That the operations of the mine were improper, inasmuch that the wheel was erected within 9 ft. of the boundary of the sett—the adjoining property being held by other parties; that the workings should have been in the centre of the sett on the deep agit, near Jones's stopes, so that the men night have worked in two ends, instead of erecting machinery on the immediate boundary, which would be most advantageous to their neighbours; but which, as he was informed, was not calculated to be of benefit to the adventurers. He also further stated that, in his opinion, he considered setting contracts, or bargains, for three months most injunious; and complained that while the duties of the agent were diminished, his salary had been increased 36 per cent., and which was grounded on the poverty of the mine—there being no ore in course of raising, nor did there appear to be any probability of such being the case for some time. He (Mr. English) also observed that, from the ha

MINING IN WALES.

Sir,-Having been called upon mining business further south than the Carliganshire district in the past week, I have much pleasure in noticing that I find mining to be spreading prosperously into the surrounding counties. No doubt you know the ancient and celebrated mine on the property of the Earl of Cawdor, on the east bank of the Towey, seven miles from Liandovery. This mine has been worked for centuries upon three immense lodes, the largest of which forms a crest, rising above the surrounding hills, and appears as a very conspicuous object in the landscape, and may be traced along the district for a great distance. Hitherto the efforts of miners and capitalists have been confined to opening these lodes on the eastern side of the Towey, and they have succeeded in establishing the great mines of Nant-y-Mwyn, the profits of which have been very considerable. The object of my journey was to trace the lodes on the western banks of the Towey, on the property of the Messrs. Jones, the rich bankers, of Llandovery. We succeeded in discovering one of the lodes, with some ore in it, on the river, and have set men to cross-cat the face of the western hill. This mine, if noticed in your Journal, will be so under the name of West Nant-y-Mwyn. I found, within about two miles of Llandovery, a little mine at work, called St. David's. The work hitherto done has been the cross-cutting of a north and south lode by means of an adit, some 15 fms. from the surface. I was curious enough to look in, and found in the northern and a nice course of ore, about 2 ft. high, and 15 in. wide, the ore being beautifully crystalised, forming cubes from I to 2 inches in size. The lode in the upper part of the level, or forebreast, was of smaller size, but containing a similar description of ore. Several heaps of ore lay around on the surface; and I concluded, from a cursory observation, that the ore formation was due to an east and west lode, which will probably be met with in a few fms. to the north; but whatever may be the result, the evidence is in favour of there being m uch lead in the neighbourhood. I also heard a favourable report of the Carmarthen mines, in the immediate neighbourhood of Goginan, we put a small mine to work on the property of the Rev. Morgan Williams, of Llanfair. This mine will be called Bronfloydd; a cross-cut of Cawdor, on the east bank of the Towey, seven miles from Llandovery. This mine has been worked for centuries upon three immense lodes, the largest of

this district.

I have heard from Bryntail that the ore ground continues exceedingly productive, and the yield in the last month was 30 tons, leaving a fair profit on a quantity that can be increased when additional crushing power is provided. At Daren we have been opening in a good body of ore ground—silver-lead ore and copper in the new adit. We shall return 20 tons of lead ore, and 7 or 8 tons of copper ore this month, which will leave us a handsome profit. I hear of the general prosperity of the surrounding mines. I believe almost every one that is properly treated is becoming a permanent and profitable property. At Allry-Crib the lode has been opened in on at distances of 5 and 50 fms. from the large discovery of ore in the lode previously alluded to in our reports.—M. F.: Oct. 10.

MINING NOTABILIA.

[EXTRACTS FROM OUR CORRESPONDENCE.]

CRAIG-X-MWYN.—I have had an opportunity of inspecting this promising sett,—but as I believe that a detailed report will be shortly forwarded to the Journal, I need not enter into particulars. Crushers have arrived on the ground, and the first sampling under the new company will take place after the first meeting, in about a fortnight.

EAST SHARP TOR.—The lode in Hitchins's engine-shaft is a little improved ince last reported, producing prian, more spar, peach, and capels, with fine ocks of gossan.

rocks of gossan.

PEDNANDREA TIN AND COPPER MINE (near Redruth) has been commenced by a company divided into 512 shares, at 304 each. The sett is of great length, and formerly gave large returns; the principal lords are Lord Clinton, E. Pendarves, and R. Collins, Eagns; the lease has been granted for 2T years, at moderate dues. The reason of the former abandonment of the mine was the excessive price paid for labour and machinery, together with lowness of the copper standard, and the depreciation of the price of tin. It is anticipated, if worked economically, that it will give remunerative returns to the adventurers.

TRELOWETH — In the 12 fm, level a good course of one has been gut and

TRELOWETH.—In the 12 fm. level a good course of ore has been cut, producing good work both for the stamps and grinder; specimens of the ores have been sent to London, which are to be seen at the office, and are of a very encouraging nature, the more so as they have not been picked, but broken indiscriminately from the lode.

TRELYON CONSOLS.—The returns of copper ore have doubled in the last month, and the prespects altogether are highly favourable.

month, and the prespects altogether are nighty ravourable.

Wheal Sarah.—It having been resolved at the last general meeting of the adventurers that the mine should be thoroughly inspected by Mr. Evan Hopkins, the necessary steps have been taken to fork the water in the engine-shaft; and a letter from Capt. Sands, dated 10th inst., states that he has received a sufficient supply of coals for the purpose, and he expects the mine will be ready for the inspection in about ten days. Samples of about 22 tons of lead ore have been sent to a London smelter for assay and sale.

Mining Discoveries in Ireland.—The Newry Telegraph says that the existence of ore at Dandrum, on the Downshire property, having been satisfactorily ascertained, the working of lead mines is about to be undertaken, a respectable Welsh company having obtained a portion of land from the ford of the soil, on his visit to that locality in the course of last week. We hope also shortly to announce the realisation of the expectation formed relative to the existence of coal-felds on the Marquis of Downshire's property at Prospect, in the county Antrim, and of such ores as iron and lead, as well as coal, on that part of the noble marquis's estate lying convenient to Hillsborough.

Public attention being now so much drawn to mining, it is very necessary that the distinctive characters of the different formation of minerals should be better known. There is a great difference between copper and tim mining, as regards profitable results, which the old miner is well acquainted with, but seldom the capitalist; their productiveness is often classed together in prospectuses as if they were alike. Again, because mines make deep in one locality, in a particular formation, it is too often supposed that all other mines must make deep, irrespective of their geological position, and thus leads, as is too frequently the case, to useless expenditure; whereas, there are formations favourable for making deep bunches of mineral, and others that produce but shallow ones. When the mine captain understands his business properly—that is, possessing a correct knowledge of the true character of the formation—he may adopt a system of working suitable to each, and often render both varieties profitable.

Unfortunately there is too much guess work with the majority, and when this is united to a feeling of indifference, as regards the consequences of the waste of capital, and the facility presented, by the excuse that mining is a lottery, of getting out of it, we need not be surprised at the common abuse complained of in mining speculations.

We have also very important points to consider when we come to lead mining: pure galena, and argentiferous lead, lead ores in sedimentary limestone and clay states, and the lead ore lodes in the primary clay-states, have all their respective merits as mining questions. Those who cannot appreciate the difference between their several products and conditions, are not competent to report on their value as mining speculations. When we reflect that this island is merely the focus of British mining enterprise, and that it branches to every quarter of the globe, the capital being often left to the sole judgment of a mine captain, it will be evident that an mere local knowledge of one

COMPANY OF COPPER MINERS IN ENGLAND.—The committee of share-holders, on Thursday, again met the Bank directors, in order to see if any arrangement could be entered into for the redemption of the mortgage on the works in Wales. We believe the sum of 50,000L was offered to the Bank, which was refused. After a lengthened discussion, nothing decisive was agreed upon. The bills given by the securities are, the greater majority of them, due in the ensuing week, and there is every probability that, unless something definite is arranged, they will have to bear the brunt. A meeting of the securities will take place this day at Messrs. Crowder and Maynard's offices, in Colemanstreet, when the necessary steps to be adopted in the present crisis will be discussed, and plans for an arrangement entered into. It would seem that, should this take place, a further sum of 100,000L, which must be raised by the creation of new stock, will be required solely as working capital for the plant. The rejection of the bill for the amendment of the charter by the committee appointed in the House of Commons after it had been read a second time, was a fatal blow, which those interested in the company did not by any means anticipate. Had this been carried—and we believe it was merely thrown out owing to the absence of some legal technicalities—an easy solution to the embarrassments of the company would have been found. The securities for the money advanced on mortgage, among other wealthy names, comprise those of Messrs. Jones Loyd, Glynn, Denison, &c.

Querbec Mining Company—We are informed, that the disputes with the

Jones Loyd, Glynn, Denison, &c.

QUEBEC MINIO COMPANY.—We are informed, that the disputes with the Indians, which threatened the existence of this company, are now terminated. After the ejection of the agents by Mr. Angus Macdonnel and the half-bloods, the Government dispatched in the spring a body of troops to enforce obedience to the law; as might naturally be supposed, these were at a disadvantage in skirmishing in the backwoods against the redskins, with their local knowledge and guerill habits. The Government thus foiled, had recourse to a measure, which, to our thinking, should have been adopted previous to granting the concession to the company—that is, to have negociated with the Indians for the sale of the property. Mr. Robinson (brother to one of the Canadian judges) was the gentlemen selected to carry this difficult task into effect, and it has now been finally arranged that the Indians in giving up the occupation of the property shall receive the sum of \$16,000, and an annuity of \$4000 as long as the mining territories are occupied by the settlers.

BUREA BUREA MINES.—We are informed that a gigantic mass of copper or of surprising richness, is to be sent from these mines to the Great Exhibitio of 1851, as a specimen of the mineral wealth of South Australia.

of 1851, as a specimen of the mineral wealth of South Australia.

New Discovery in the Tenacity of Iron.—We understand that Mr. Adams, the assistant manager of the Clarion Iron-Works, U.S., has made an important discovery in the manufacture of railroad and merchants' bar-iron from coke metal. It appears that the rails made from charcoal would crack or break under two blows. By Adams's process iron can be made from \$8 to \$10 per ton lower, and of a superior quality. The process has not been divulged, but the quality of the iron is much praised. A rail while hot was put into cold water, and afterwards attempted to be broken by a sledge hammer of 80 lbs, weight; 40 blows were given by six men alternately, and they could not even crack it. Charcoal iron costs from \$18 to \$22 per ton, while that of coke metal is only from \$9 to \$11 per ton—this in Philadelphia, in the coal and wood region. Notwegian and Swedish iron, solely made from charcoal, realises in New York from \$85 to \$100 per ton.

We cannot but call the attention of our readers to the erection of a powerful steam-engine underground, at the depth of several hundred feet below the
bed of the River Tamar, in the Tamar Silver-lead Mine, Beeralston, by the aid
of which, not only will large quantities of ores and stuff be raised to surface
along the inclined plane leading to it, but likewise a large shaft sunk on the
course of a productive lode. It is but justice to the spirit and energy of the
directors to notice this interesting operation, more especially as it will lead to
a development of mineral at greater depths, which could not otherwise be done.

IMPORTATION OF TIN.—The Revenue authorities have granted permission for in in blocks, ingots, bars, or slabs, to be added to the list of articles allowed to a landed at the first-class wharfs on the river side, on importation into the per of London from foreign parts.

ACCIDENTS.

ACCIDENTS.

Fearful Sacrifice of Life at Oldham.—A dreadful explosion has occurred at the Riley Mine, Bent Colliery, by which sixteen persons have lost their lives. About two o'clock on Wednesday last, while some 25 or 30 colliers were at work, a portion of the roof fell in, and broke the wire-gauze covering of one of the Davy lamps, with which all the miners are provided. The consequence was the instant ignition of a mass of carburetted hydrogen, which had gathered in the mine, causing a most terrific explosion, and immediate death to those in the neighbourhood. Several hours elapsed before any one could be got out of the shaft, except four persons. At six o'clock the same evening five persons were got out—one dead, three are not likely to recover, and one seriously injured. On Thursday there were 16 found at the bottom of the pit, who, it has been ascertained were all dead; 10 have been recovered in the whole, but several of them are seriously injured. Mr. Butterworth, the owner of the mine, when apprised of the accident, caused every effort to be made to reacen the killed and wounded nen from the mine—a work of much difficulty and danger, on account of the density of the clocke-damp, which rendered it almost impossible for any one to venture into the mine. There was but one shaft sunk in this mine—ventilation being obtained by dividing part of the shaft by a wooden partition, or "bradiabing;" and the effect of the explosion was to destroy a large portion of this partition, thereby choking up the means of access to the mine, and rendering it very difficult to extricate the men who were ultimately awed. The inquest was to be held this day (Saturday). It should be generally known that by the new Mine and Colleries Bill, which received the Royal Assent on the 10th of August, under a penalty of 20, every owner or agent of a coal mine or colliery is bound to give notice of any accident in the pits, or any machinery connected with such pits, together with a statement of the grobable cause of the accident, within 24

attached to any one.

Cost Peck Occi Pitz.—On Saturday last the men engaged at these pits went down to their work as usual, and becoming conscious of the presence of fire-damp, they immediately endeavoured to effect their escape; before this could be effected, an explosion took place. Three men were killed, and two others are in a hopeless state: none were burnt, as usual in such cases, but evidently suffocated. The mine had been ventilated in the usual way, but it appeared the miners preferred using candles to the safety lamp.

Biackrod.—James Black, a boy, 12 years of age, was thrown out of a tub while ascending the shaft of the Drink's coal-pit. There were four persons in the tub, and when they were shout 25 years from the bottom, it came in contact with the side of the shaft, and deceased was thrown out and killed.

Receive Region.—Sames Brown was killed at a nit belonging to Messre, Rare's, to the

and deceased was thrown out and killed.

Rosely Regis.—Samuel Brown was killed at a pit belonging to Mesara. Barr'a, by the fall of an immense quantity of coal; he must have been killed instantly, as it was as everal hours before his body could be extricated from the large mass.

Bury.—Robert Greenhalph was killed by a fall of roof in Mr. L. Duckworth's pit.

Presteign.—William Pinches was in the act of priming a bore, filled with gunpowder in the quarry belonging to I. A. Phillips, Eag., when an explosion took blace, which carried Finches about 25 yards in the air, when from the concussion and full, death ensued.

Westboughton.—William Hart went down in the pit with Richard Taylor and Jame Estock; they had each a lighted candle, and Taylor carried 3 lbs. of blasting powder wrapped in a cloth in his breast; when they had been down about a quarter of an hou an explosion of fire damp ignited the powder. They had been provided by Mr. Wood ward, the owner, with safety lamps, but which they did not consider it necessary to use at the fire-damp was so trilling as to enable the men to extinguish it with their jackets W. Hart and R. Taylor were killed, and J. Estock much injured, but likely to recover

Rem Batents.

SPECIFICATION ENROLLED DURING THE PAST WEEK

SPECIFICATION ENROLLED DURING THE PAST WEEK.

E. G. POMEROY, of Cincinnsit, United States of America: For a new and useful process of coating iron and other metals with copper and other metallic substances. In order to prepare the iron or other metals for the dipping process, Air. E. G. Pomeroy first cleanage it with dilute sulphurie acid, then dries is ower a brak fire, and envelopes it in a peste or pulp of clay, after which it is a second time dried as before, when it is ready for the finishing operation. In order to carry out this part of the invention, a suitable bath of copper. or its alloys is prepared and kept in a state of finidity. In this the iron is to be immersed for a length of time, varying with the size of the article. Thus, sheet-iron should be kept in the meljed copper only a few seconds—for this reason, that as soons simpregnated (coated) it becoines "hot-short," and will break by its own weight; but if carefully handled whee cold, it will be tough, and when rolled will present a bright surface, equal in appearance to copper or brass. In other cases the time required for coating will depend on the fassawiveness of the piece immersed, and on its being raised to a temperature at which the copper is in a condition to commence "impregnation." This may be attained by keeping the melted metal at a heat beyond the bare melting point. In all cases the fron should be immersed only so long as it will bear without becoming "hot-short;" and the toughness of the metal will depend on the amount of "impregnation" during the first dip. The immersion may be repeated till the ceating is of sufficient thickness. The patentee observes that the usefulness of clays as a coating depends on the amounts herein contained, which unites with the residual sulphuric acid of the first process, and neutralizes its action on the iron, at the same time preventing oxidation from cofficat with the atmosphere. The plates thus "impregnated" are suitable for sheathing ships, roofing, &c., and from splices or bolts to sile-building

LIST OF PATENTS GRANTED DURING THE PAST WEEK

LIST OF PATENTS GRANTED DURING THE PAST WEEK.

C. Bury, of Salford, Lancaster, manager, for certain improvements in machinery or apparatus for preparing and spinning, doubling or twisting silk waste, cotton, wool, flax, or other fibrous substances.

C. Bury, of Salford, Lancaster, manager, for certain improvements in machinery or apparatus for cleaning, spinning, doubling, and throwing raw silk.

R. Beart, of Godmanchester, for improvements in the manufacture of bricks and tiles.

W. Wood, of Over Darwin, Lancashire, carpet minufacturer, for improvements in the manufacture of carpets and other fabrics.

W. H. Ritchie, of Kennington, Surrey, gentleman, for certain improvements in machinery for preparing and carding fibrous substances.

W. E. Newton, of Chancery-lane, engineer, for improvements in manufacturing yarns.

J. H. Browne, Esq., of the Reform Club, Pall-Mall, for improvements in the separation and disinfection of focal matters, and in the apparatus semployed therein.

W. F. Fernihough, of London, engineer, for improvements in locomotive and other steam-engines, and improvements in obtaining motive-power.

W. Hayden, of Windham, Connecticut, United States of America, for an improved the "drawing frame."

A. F. Gurit, of Manchester, gentleman, for an improved method of extracting silver from argenitierous minerals.

J. S. Russell, of Great George-street, Westminster, engineer, for improvements in the construction of ships or vessels propelled by paddle-wheels, with a view to better arming the same.

DESIGNS FOR ARTICLES OF UTILITY REGISTERED.

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T. Thompson, Commander, Royal Navy, safety-plug for boats and vessels.
G. Aldred, Primrose-street Bishopsgate, plate mortice nut for a looking-glass.
W. Raymend, Dalston, life raft.
F. Clowes, Birmingham, self-adjusting vertebral brace.
S. A. Hayes, Strand, apparatus for fractures of the lower extremities.
T. Key, Charing-cross, regimental cased clarinoset.
Clayton, Shuttleworth, and Co., Stamp End Works, Lincoln, combined threshing, shaking, and riddling meabline.
H. Kilby and W. Harris, Cheltenham, portable hot-house.

[ornaments.
J. G. Taylor, Greats St. Thomas Apostite, self se uring spring for pins, brucches, and Allen and Moore, Birmingham, match box lid.
Mortiboy and Herbert, Newman-street, Oxford-street, clasp-fastener for bracelets, chains, and other articles of jewellery and dress.
J. Cartvergist, Nawton-wood, Chester, steam-boiler.
G. Harrows, Old Bond-street, rails say travelling trunk—" The Panelasticon."
G. Boulton, Great Dover-artset, Borongth, safety pin.
R. Brown, Sheffield, magnetic lightning conductor.
Elkington and Co., Birmingham, and Spring-gardens London, luffer for ventilator, Miali, Marshali, and Co., Ingram-court, Fenchurch-street, duplex flanged pipe joints.
W. Chapman, Johnson-street, Jounnell, Tipporary, grain crusher, and regulating feed, for iscillating the grinding of meal and flour.
W. Lowe, Birmingham, bott.—Mechanics' Magazine.

COAL MARKET, LONDON.

COAL MARKET, LONDON.

PRICE OF COALS FEE TON AT THE CLOSE OF THE MARKET.

MONDAY.—Begbie's Harriey 15 3—Carr's Harriey 15 9—Clavering's New Tandeld 13 3—East Adair's Main 13 6—Holywell 16—North Percy Hartley 15 6—Original Windsor's Pontop 12 3—Tandeld Moor 13—Tandeld Moo Butse 13—Tewniey 14—West Wylum 13 9—Wall's-End Acorn Close 16—Bewicke and Co. 15 3—Bill and Brown 15 3—Elm Park 14 9—Gosforth 15 3—Heaton 15 3—Original Gibson 14 6—Biddell 15—Walker 14 9—Eden Main 15 6 and 15 9—Bell 16—Belment 16 6—Braddyll 16 3—Hetton 16 9—Lambton 16 6—Reseals's Hetton 16 3—Hesselden 14 9—Kelloe 15 3—South Hartlepool 16—Whitworth 13 9—Adelaids Tees 15 9—Cowndon Tees 15 3—Seymour Tees 15 3—South Durham 15 and 15 3—Tees 16 6—Derventwater Hartley 15 3—Soughan's Stone Coal 25.—Ships at market, 97; sold, 70.

WEDNESDAY.—Carr's Hartley 16 6—Clavering's New Tandeld 136—North Percy Hartley 16 6—Original Windsor's Pontop 12 6—South Peareth 12 6—Tandeld Moor 13—Tandeld Moor Bates 13.—Townley 14—Wall's-End Acorn Close 15 3—Berwick and Co. 15 6—Conforth 15 3—Walker 15—Eden Main 16 9—Belmont 15 9—Hetton 16 9—Lumiey 15 6—Conforth 15 3—Walker 15—Eden Main 16 9—Belmont 15 9—Berley Teeton 16 9—Lumiey 15 6—Study 14 9—Chester Main 14 6—FRIDAY.—Bate's West Hartley 15 6—Spajo's Hartley 14 9—Chester Main 14 6—FRIDAY.—Bate's West Hartley 15 6—Begboo's Hartley 14 9—Chester Main 14 6—FRIDAY.—Bate's West Hartley 15 6—Begboo's Hartley 14 9—Chester Main 14 6—FRIDAY.—Bate's West Hartley 15 6—Begboo's Hartley 14 9—Chester Main 14 6—FRIDAY.—Bate's West Hartley 15 6—Begboo's Hartley 14 9—Chester Main 14 6—FRIDAY.—Bate's West Hartley 15 6—Begboo's Hartley 14 9—Chester Main 14 6—FRIDAY.—Bate's West Hartley 15 6—Begboo's Hartley 14 9—Chester Main 14 6—FRIDAY.—Bate's West Hartley 15 6—Begboo's Hartley 14 9—Chester Main 14 6—FRIDAY.—Bate's West Hartley 15 6—Begboo's Hartley 14 9—Chester Main 14 6—FRIDAY.—Bate's West Hartley 15 6—Begboo's Hartley 14 9—Chester Main 14 6—FRIDAY.—Bate's West Hartley 15 6—FRIDAY.—Bate's West Hartley 15 6—FRIDAY.—Bate's West Hartley 15

29—Derwentwater Hartley 15 6.—Ships at market, 31; sold, 25.

FRIDAY.—Bate's West Hartley 15 6—Begbie's Hartley 14 9—Chester Main 14 6—East Adair's Main 13 3—Holywell 16—Jonassohn's Hartley 14 9—North Percy Hartley 15 3—Original Windsor's Pontop 12 6—Ravensworth West Hartley 16 9—South Peareth 15 6—Eartheld Moor 13—Institled Moor 13—Institled Moor 13—Institled Moor 13—Institled Moor 13—Beach Mater 15 6—Eartheld 15 3—Beach Main 15 6—Lambton 15 3—Beach Main 15 6—Lambton Primrose 15 6—Bell 16—Belmont 15 6—Braddyll 16 3—Hetton 16 6—Scarborongh 15 6—Stevart's 16 6—Whitwell 15 3—Caradou 16 9—Russell's Hotton 16 16—Scarborongh 15 6—Stevart's 16 6—Swith Hartlepool 16—South Kellon 15 9—West Kellon 15 3—West Hetton 15 3—Whitworth 14—Adelaide Toes 15 9—Brown's Deanery 15—Cleveland Toes 15 3—Maclean's Tees 14 9—Stevard Tees 14 3—Symour Tees 15—South Durham 15 3—Tees 16 6—Vernon's Tees 13 3—West Cornforth 15—Cwm Garnant Stone 24—Derwentwater Hartley 15 6—Gwen Cae Garwen 24—Hartley 15 6—Hetton Nuts 116—Morgan's Stone Coal 23—Ships at market, 217; sold, 169.

Delivery of coals, &c., in the port of London during the month of Ser Tons.
71,544
69,264
51,641
4,663
111
13,376
897
1,251
895
151 Sunderland
Stockton, Middlesbro', &c.
Blyth
Sootch
Welsh
Yorkshire, &c.
Small Coal. Total imported in Sept., 1850...... 758
Total imported in Sept. 1849

Inland coals, brought by canal, in the mouth of Aug., 1850, upon which it City's and other dues were received.

Zhaland coals, brought by railway, the City's and other dues upon which we paid into the Chamber in the mouth of September, 1850 Tons 1521

COMPARATIVE STATEMENT OF 1849 AND 1850. Increase in the present year 264 124,491

COPPER IN AMERICA.-We are at a loss to imagine in what way the Amerians ship their ores or dress them, when we read the accounts of their ships cans ship their ores or dress them, when we read the accounts of their shipments. The propeller, Independence, brought down on the 11th Sept., to Saut Ste. Marie, on Lake Superior, about 120 tons of copper, in masses and stamp work from Cliff Mine. On board the Independence were masses weighing, 5000 lbs., 4900 lbs., 4860 lbs., 4310 lbs., and a dozen weighing 3700 lbs., 3500 lbs., 2900 lbs., 2200 lbs., an. such small quantities. At the North West Mine, a mass of 6000 lbs. was waiting for shipping; 100 tons had already been dispatched, and about 200 more was expected by the fall; in fact, it had become a every-day business to see cargoes of copper (query) arriving and departing. We are afraid that these are ores which are sent down in the rough state; conquently much more expense is incurred from the American view of looking grandiose than is necessary, or pradence and economy would dictate. The ores we have seen from Lake Superior are merely of the average per centage.

SINGULAR CINCUMSTANCE.—A few days ago, while a shaft was being sunk in the neighbourhood of Redruth, the labourers came in contact with a stone, and by some means broke it in two. Much to their astonishment, a live toad jumped out, appearing in no way affected by its sudden release from imprisonment. It was subsequenty taken by some gentlemen to Truro, and is now in the museum belonging to that town.

Current Prices of Stocks, Shares, & Metals.

STOCK EXCHANGE, Saturday morning, Eleven o'clock.

Belgian, 4½ per Cent., ——
Dutch, 2½ per Cent., 57½ 8 7½ ½
Brasilian, 5 per Cent., 90½ ex. div.
Chilian, 5 per Cent., 90½ ex. div.
Chilian, 5 per Cent., 110 5½
Mexican 5 per Cent., 110 5½
Spanish, 5 per Cent., 135
Ditto 3 per Cent., 35½

Mines.—A considerable amount of business has been transacted during MINES.—A considerable amount of oursides has continued in full the week, and the demand for shares in leading mines has continued in full

Mines.—A considerable amount of business has been transacted during the week, and the demand for shares in leading mines has continued in full activity. The supply in dividend mines has not been equal to the demand, while a great many shares of secondary mines have changed hands. The copper market remains the same as last week; the standard has, however, not been raised. Some of the makers are full of orders for manufactured copper for two or three months to come. British tin has been in better request since the fall in price, and East India tin has realised better prices; Banca has been sold at 80l., and Straits at 78l. per ton.

Several shares in Devon Great Consols have been sold during the week, and inquiries are still being made.

There are buyers for Botallack, Wheal Basset, Wellington, Tremayne, and South Tolgus; but the advanced rates asked are not readily met.

A large number of Alfred Consols and Wellington have changed hands during the week.

The bi-monthly report from Mary Ann this week is of a highly gratifying character, the mine generally having much improved. Two parcels of silver-lead ores were sold on Monday, the 7th inst.—No. 1 at 194. 15s. 6d. per ton, and No. 2 at 9l. 16s., by which upwards of 2500l. will be realised. Bedford United is stated to be looking remarkably well. In the castern end, in the 103, the lode is yielding from 6 to 7 tons per fm. In a winze sinking under the 90, it is worth from 4 to 5 tons per fm. The lode in the back of the 103 is also much improved.

At Great Sheba Consols we learn that the discoveries made are of the highest importance. The surface operations, as well as the underground, are progressing in the most satisfactory and encouraging manner.

At Wheal Adams, the cross-cut in the 70 is closely approaching the lode, when, no doubt, a fine course of lead may be expected from the rich bunch gone down in the 60. At Wheal Exmouth the same lode is now worth 1000, per fathom.

Wheal Russell is progressing as favourably as was stated last week. On

when, no doubt, a fine course of lead may be expected from the rich bunch gone down in the 60. At Wheal Exmouth the same lode is now worth 100l, per fathom.

Wheal Russell is progressing as favourably as was stated last week. On Tuesday, 47 tons 7 cwts. 2 lbs. (21 cwts.) copper ores were sampled and weighed, being above the estimate previously given.

From North Wheal Friendship were sold, on the 7th inst., to Messrs. R. Michell and Sons, 21 tons (21 cwts.), at 10l. 14s. per ton.

Wheal Seton, we learn, is looking very well, although the dividend on Monday next will probably not be more than 5l. for the two months; in all likelihood, however, the next account will leave a larger balance in hand, as 1100 tons were sampled for August and September, which sales will go to the discharge of Oct. and Nov. costs. There is every reason to calculate on a much longer run of ore ground in the 100 fathom level than was met with in the 60. In Cock's ground they have a large and kindly lode, towards which they are driving a cross-cut in the 64, and sinking a shaft from surface. These operations are attended with heavy expenses, and tend to curtail the dividends.

From Alfred Consols we learn that in the winze sinking under the 70 a great improvement has taken place; the lode is worth 100l, per fathom. The 70 cast is worth from 100l, to 110l, per fm., and the lode in the 60, east of Field's shaft, from 40l, to 50l, per fm.

From the Welsh mines, we learn that at Lisburne the produce for September is estimated at 460 tons, and for October about 437 tons will be sampled. At Nanteos the 15, 20, and 30 fm, levels, with the stopes, are yielding, on an average, about 12½ cwts, of ore to the fathom, and 65 tons were sampled on the 7th inst. At Daren there is a fine course of ore in the new adit, yielding a large amount of lead and copper ore. The rails are being laid, and the crusher works well. The stopes in the level Canal are now all right, having fixed good timber throughout. A new pass is making from level Canal to level Coed.

level is about 3 ft. wide. At Llwynmalees, the 8 and 10 fm. levels, and the stopes over the 8, are in fine branches of ore. In cutting down the north side of London shaft, an excellent branch of ore has been found.

Shares in the following mines have changed hands during the week:—Devon Great Consols, South Tolgus, Botallack, South Basset, Tincroft, Tremayne, West Providence, Trehane, Bedford United, Nant-y-Car, Trelawny, Bridford, Alfred Consols, Mary Ann, Great Sheba Consols, Warleggan, Crobor, Hennock, Dolcoath, South Plain Wood, Wheal Russell, Venton, Stray Park, Butterdon, West Stray Park, Wellington, Fortescue, West Frances, West Tolgus, East Buller, Daren, Tregorden, Tamar Consols, Holmbush, West Wheal Jewel, Trefusis, Mill Pool, &c.

At the Tamar meeting, it appeared that the directors had been unable to reserve their produce for a good market, for want of available funds, which precluded their competing with other smelters. A loss had occurred in the smelting department from several causes, among which are the great competition in purchasing ores, the drop in the price of lead, and the high price given for the Tamar ores. The receipts were stated to be 21,1841, 3s., and the expenditure 18,3451, 44s.: leaving a balance of 28384, 9s. The reserved sum amounted to 22991, 13s., and a further call of 11, per share on 9600 shares shows that additional capital is required.

At the East Tamar Consols meeting, the accounts showed a balance in favour of mine, 4531, 8s. 1d. Previous to the next meeting, in December, there would be a balance against the mine, consequently a call of 2s. per share was deemed necessary, and accordingly made.

The balance-sheet showed a balance of 10031, 7s. in favour of the mine. Before the next two-monthly meeting, the balance of payments over receipts was stated to be 3751, 3s.; whilst the account of assets and liabilities shows a balance in favour of the company of 14241, 17s.

At Tavy Consols account meeting for July and August, the accounts showed a balance and for a payment of t

sion of 24 years.

pension of 24 years.

At Grambler and St. Aubyn meeting, the accounts for six months ending Aug. showed a balance of 11l. 0s. 10d. in hand; but to carry on the operations with effect, it was deemed necessary to make a call of 2l. per share. At the Dyfugwm meeting, owing to the agent not having transmitted the accounts, but little business was transacted. The meeting was but thinly attended, and complaints were made, that while the duties of the captain were diminished his salary had been increased.

thinly attended, and complaints were made, that while the duties of the captain were diminished his salivy had been increased.

At the Rhoswydol meeting, the purser entered into an explanation as to the outlay upon the mine, which had been represented to be 28,000. to 36,000. he said it was only for him to refer to the books of the company, whereby it would be seen that not more than one-fourth part of such amount had been expended. In the first place, the mine was divided into 2500 shares; of these, 2000 shares were taken up by the parties as free shares, to a certain point, representing 20,000. and the remaining 500 shares paid their calls, as we understood, up to 10. per share, or 5000., and sub equently the others had paid their proportion of the further calls, the purchase money for the mine being, in fact, 25,000. A call of 1s. 6d. per share was made.

At Hawk's Point Mine meeting, a call of 25s. per share was made, which is calculated to put down engine-shaft 10 fms, and also to drive east and west on main lode 10 fms. Capt. Higgins has a good opinion of the mine: the engine-shaft is sunk 26 fms, below surface, about 13 fms, under adit; driving east and west on lode, turning out 3 tons to a fathom. There are about 16 tons of good ore at surface, and expect soon to increase to 60 tons.

At Great Callestock Moors meeting, the accounts were finally closed by a dividend of balance in favour of adventurers of 100. 5s. 3d., being at the rate of 9s. 7d. per share.

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EXPO

In Foreign Mines, transactions have taken place in the following shares:—United Mexican, St. John del Rey, Cobre, Santiago, and Copiapo. The late advices from the Imperial Brazilian mines have caused a demand.

From the Linares report up to the 28th Sept., it appears that the lode in the 31, east of Shaw's a haft, is more favourable, and that in the San Antonio winse some good lead has been broken. The tribute pitches and other parts of the mine are just the same as lear reported. The amount of or weighbed in during the week is 24 tons 3 cwts., making 52 tons 1 cwt, at the mine; whilst at Sewille and Malaga, vaiting for slipment, there are 242 tons 14 cwts, making a total of 380 tons 15 cwts; on the passage to England, 60 tons 18 cwts.

The St. John del Rey letters are to the 3th of August, giving the returns for July, the profit for the month being 24896. Is. 1d.; the produce being (duty deducted) 20,167 oits; value, 77284. Iv. 9d., and the costs, 52994. Is. 1d. The sapply of ore was abundant, but the quality inferior; it is now represented as better, and an improvement for the current month (Aug.) was anticipated. The cost-sheet for the month is more than ordinary, owing to a charge of 6734. Is. 6 for necessary matricise being included. A remittance of 394 lbs. of 6734. Is. 6 for necessary matricise being included. A remittance of 394 lbs. of 12th August from Gong Soo and Bananal are stated at 25 lbs. 1 oz. 1 dwt. Advices of the 3d and 13th August from Bananal are stated at 25 lbs. 1 oz. 1 dwt. Advices of the 3d and 13th August from Bananal are stated at 25 lbs. 1 oz. 1 dwt. Advices of the 3d and 13th August from Bananal are stated at 25 lbs. 1 oz. 1 dwt. Advices of the 3d and 15th August from Bananal are brospects shoot in the Big Pump vein, from whence some works resulted, which have yielded 8 lbs. 1 oz. 2 dwts., and the prospects look considerably more cheerful, some particulars of which will be found is another column.

The National Brazilian letters are to the 24th July, and the result of the sum of the

LATEST CURRENT PRICES OF METALS.

ENGLISH IRON, a per to	. Tile £78 10 0
Bar, bolt, □, London £5 0-5 7	
Nail rods	
Hoops 7 0-7 2	
Sheets (singles) 7 12 6-8	
Bars, at Cardiff & Newport 4 10-4 12	a land
Refined metal, Wales* 3 5-3 12	
Refined metal, Wales* 3 5-3 12 Do. anthracite* 3 10 0	Tik
Pigs in Wales 3 0-3 5	Sheet 17 15-18 5
	Fipe
	Red lead 10 0 0
	White ditto 25 0 0
Blewitt's Patent Refined Iron of S 10 8	Patent shot 20 10 0
for bars, raits, &c., free on > 3 10 0	FOREIGN LEAD, A
board at Newport*	Spanish, in bond 16 0 0
Do., do., for tin-plates, boiler 1 4 10 0	
plates, &c., ditto	ENGLISH TIN.
Stirling's Patent 7 in Glasgow 2 15 0	Block per cwt. 4 0 0
Toughened Pigs 5 in Wales 3 10-3	
Staffordshire bars, at the works 5 5-5 1	0 Refined 4 6 0
Rails 12 6-4	FOREIGN TIN k
Chairs (Clyde) 4 0 0	Banca, H. C 4 0 0
PARTICIP FROM A	Ditto, for Export only
Swedish	
	O TIN-PLATES. 1 .
PSI	IC Coke per box 1 7 6-1 8
	IC Charcoal 1 12 6-1 13
Gourieff	
Archangel	IX ditto 1 19 0
POREIGN STEEL.C	SPELTER. III
Swedish keg	Plates, warehoused per ton 16 15-17 0
Ditto faggot	5 Ditto, to arrive 16 15 0
	ZINC. N
ENGLISH COFFER. d	English sheet per ton 21 0 0
Sheets, sheathing, & bolts, p. lb. 0 0 9	
Tough cakeper ton 79 10 0	QUICKSILVER 0 per lb. 3s. 9d.

REMARKS.—A large business was done in Welsh bars some days since, at 41. 10s.; we now quote the market steady at this price. Scotch pigs have been very quiet this week, and lightle or no business doing, at 42s. 9d. net money, and 43s. 6d., three months, open delivery.—In lead, no alteration.—Several parcels of Banca tin have changed hands at 80s. cash, and 81s. with a prompt, price firm. A good business has been done in English tin, at the late reduction.—Tin-plates rather easier.—An advance expected in copper, and for manufactured jd. per lb. has been paid.—In spelter, there are only a few sellers, at 166, 18s.

GLASGOW, Oct. 10.—The demand for pig-iron for the past week has been limited buyers, for the most part, will not give the price demanded, and holders seem easy about selling, consequently the price is well maintained. The price is quoted at 43s., cash, for mixed Nos., free-on-board here.

LiverPools, Ocr. 11.—The copper meeting last Tuesday passed over without any alteration in price being declared. Differences of opinion at the board, it is understood, have arrainen, which, with other considerations, appear to have rendered it needful to leave the question for the present in aboyance; this state of things is to be regretted, being so obviously contradictory of the present state of the trade. With quotations at 9d. per lb., there are no sellers under 9½d., and we believe no difficulty is experienced in making sales at the latter rate. Our market is thus in an anomalous position, and it is, on every account, to be desired that the quotations should represent, and be a true index of, the setual sales. Iron continues dull at 4¼t. to 5t. per ton, six months, or 2½ per cent. cash.

THE IRON TRADE

THE IRON TRADE.

The quarterly meeting of the iron trade was held on the 9th inst. at Wolverhampton, and on the following day at Birmingham. At Walsall, notwithstanding the depression which has taken place, the settlement of the quarterly accounts was deemed more satisfactory than could have been anticipated. The imposition of a more restricted tariff, with heavier duties on British iron (which we have remarked elsewhere), by the Spaniards, was viewed with great alarm by the ironmasters; and it was thought that the trade of South Staffordshire would be almost excluded from that country. Although the exports of machinery and metals from Great Britain had considerably decreased in the last two months, the general exports of iron for the last year have been in excess of any former year. The prices of iron in South Staffordshire and Shropshire are somewhat lower than last quarter, subject to peculiar circumstances of purchase. Thi plates are in great request, It was the unanimous opinion of all parties that the causes which have led to the present untoward condition of the entire trade, is mainly to be attributed to excess of production, and absence of railway demand. The reduction of a third of the make, suggested by the Welsh masters, and communicated by Mr. Thorneycroft (vide Mining Journal, Sept. 28th), was generally approved. If this were not adopted, it was apprehended a reduction of wages would be the inevitable consequence, which would be a fearful expedient on the eve of winter. At the Birmingham meeting, there was little to remark beyond that stated at Wolverhampton, although the general-distress and depression which they acknowledged was more than fully confirmed. Pig-iron was being sold by the smaller maker at almost any rice; and from, which nome few years age fetched about 104, per ton, was now being offered at the rate of \$4. 12s. 6d. All were here, as well as at Wolverhampton, of the opinion that over production had done all the mischief; and that if the make was not greatly reduced, there would be

EXPORTS OF METALS TO ALL INDIA FROM LONDON AND LIVERPOOL,

	RET NINE MONTH				9
Metals.	1849.	1850.	In. in 1850.	Dec. in 1	88
Spelter	Tons 3210	9794		. 416	ī
Copper	4684	4620		64	
Iron, British	25844	40604	14760		
Ditto, Foreign	1670	1069		601	
Tin-plates	loxes 11668	15080	3412	No of Burn	
Lead	Tone 2798	2365		433	Ξ
Steel	785	892	137		
Quicksliver	offles 247	52		. 195	Ł
		nort notco	1, 1/1057 Pd 1657	CHE BY	

EXHIBITION OF 1851.—T. P. AUSTIN, proprietor of peecks coffee house, pleet-street, bags respectfully to inform in friends and the public generally, especially those interested in the forthcoming GREA EXHIBITION, that he has recently NEARLY BOURLED THE SIZE OF HIS ESTA BLISHHENT, which will enable him to afford increased comport and convenience those honouring him with their patronage. The FILES OF NEWSPAPERS and PR HIDDICALS, for which Peel's Coffee-house is so celebrated, containing all the report of the Royal Commissioners, will be available to those visiting this establishment.

**a* The Histing Journal, in addition to all Publications connected with the Mining Interests, are regularly filed.

Bed and Breakfast, 3s., or £1 per usek.

WPER & CO.'S PATENT IMPROVED WIRE ROPES

MANUFACTORY—GRAND SURREY CANAL CAMBERWELL, LONDON.

FRANCIS AND H. J. MORTON.

10, NORTH JOHN-STREET, LIVERPOOL, and 91, ALBION-STREET, LEEDS.

The great SUPERIORITY and ECONOMY of WIRE ROPES for MINES and RAII
WAYS, over Hemp Ropes or Chains, has been fully established by extunsive use in all tiprincipal mining districts in the United Kingdom for many years—being cheaper, mue
lighter, more durable, and a great easing to the engine.

KUPER & CO. request particular attention to their improve Delay Ropes, for Inclines, &c
and PIT GUIDES OF CONDUCTORS made of very thick wire, and in one length, will
out Joints.

out joints.

Prices, carriage free to the nearest railway or water station, 56s. per cwt. for rour

10s. per cwt. for flat ropes; galvanising, 10s. per cwt. cxtra.

SIGNAL CORD, galvanised or varnished, of all sizes, for Mines, Railways, &c., free

4s. per 100 yards.

GALVANISED SIGNAL PULLEYS, with brass wheels, 6s. per dozen.

GALVANISED and CORRUGATED IRON ROOFING, GUITTERING, SPOUTIN WATER and GAS PIPES, of all kinds, FIXED and SUPPLIED.
GALVANISED GAS, WATER, and STEAM PIPES, of great strength.
FAIRBANK'S PATENT WEIGHING MACHINES, of all sizes, at very low prices.
ASPHALTED ROOFING FELT, 1d. per aquare foot.
DRY HAIR BOILER FELTS, of all thicknesses.
PATENT WIRE STRAND FENCING and GRNAMENTAL WIRE WORK, for Raway, Park, and Agricultural Fencing.—F. & H. J. Morton have fixed upwards of 55 miles of this fencing in the last few years.—Price from 1s. 6d. per yard, fixed, complet 63- STOCKS constantly kept in LIVERPOOL, LEEDS, and LONDON.

E. & H. J. MORD TON

PATENT GALVANISED IRON AND SPOUTING WORRS,
10, NORTH JOHN-STREET, LIVERPOOL, and 91, ALBION-STREET, LEEDS.

LEAD ORES.

Ticketings at the White Horse Hotel, Holywell, October 10.

Mines.	Tons		Price	per	To	. 480	Purchasers.
Macsyrerwddu	69	*****	£10	12	6		Newton, Keates, and Co.
Coetia Llys	31		12	1	6		J. P. Eyton.
Hendre	48		10	19	0		Mather and Co.
Ditto	14	*****	10	15	6		Walker, Parker, and Co.
Ditto	24		11	1	6		Ditto.
Deep Level	100		10	15	6		Mather and Co.
Fron Fawnog	23		14	12	0		Newton, Keates, and Co.
Talacre	40		12	1	6		Walker, Parker, and Co.
Lloc	50		12	1	6		Ditto.
Strontian	. 71		11	7	0		Ditto.
Cairnsmore	40		10	5	6		Mather and Co.

				l on the			- 1	Authorities and the second second
sŧ	Wheal Rose	**************	31	*****	£15 1	6	** **	R. Michell and Son.
	Ditto		- 8	*****	9 15	0		Ditto.
	Ditto	***************	22		13 12	0		Sims and Co.
	Ditto	** ** ** ** ** ** ** **	6		7 10	0		Ditto.
	Ditto		7		12 12	0		R. Michell and Son.
	Ditto							

BLACK TIN

agines.		Jons					rice	per	tor	Purchasers.
neral Court	*******	4	4	2	18		£55	10	0	 Calenick Company.
Ditto	*******	. 0	5	1	16		28	0	0	 Ditto.
Ditto	*******									
Ditto	******									
Ditto	*******			1						Ditto.
Ditto	*******	0	1	2		*****				Ditto.

COPPER ORES

Sampled Sept. 25, and Sold at Andrew's Hotel, Redruth, October 10.

	-	_	_		-					7/02	_	-	_
	Tons.			Pri	ce.		1		Tons.			Pric	e.,
Carn Brea	. 92		£5	13	6			Alfred Consols	74		£5	9	6
ditto	83		9	2	6			ditto	68		5	19	6
ditto	78	****	4	10	6		1	ditto	60		4	19	6
ditto	74		6	19	6		1	ditto	23		11	19	0
ditto	70	****	7	5	6		1	Wellington Mines.	86		.6	12	6
ditto	69		5	18	0		1	ditto /	78		. 5	17	6
ditto	66		4	7	6		00	ditto	48		4	19	0
ditto	50		4	. 3	0			ditto	8		15	. 5	6
ditto	46		2	10	6		1.	Levant	112		2	9	0
ditto	29		13	5	0	91	1 -1	ditto	60		3	17	6
Tywarnhayle	124		3	7	6		1	ditto	34		8	4	0
ditto	116		3	5	.6	01 / 700	1	West Wheal Seton	. 84		4	2	6
ditto	95		3	19	6		1	ditto	27		3	14	6
ditto	75		- 3	3	6		10.4	West Wh. Treasury	49	** **	4	12	6
ditto	70		8	7	6	1	11.50	ditto	43		7	2	6
ditto	42		3	11	0	- 0.7	1.00	Wheal Agar	44		3	17	6
ditto	26		2	13	0		100	St. Aub. & Grylls	18		3	9	0
Nancekuke	34		4	6	6		1114	ditto	15		7	5	6
Par Consols	86		7	10	0			South Wh. Fortune	20		4	6	0
ditto	82		6	13	0		1 %	Wh. Friendship	8		3	19	6
ditto	66		5	16	6			ditto	-		2	8	0
ditto	51		10	12	6		1	Wh. Union	8		6	16	0
Wheal Buller	85		4	15	6			East Wh. Treasury	8		3	3	0
ditto	70		6	9	0			Godolphin	4		4	16	0
ditto	61		10	4	6	br I	0.18	ditto	2		0	10	0
ditto	57	****	8	1	6			Auge - The Control			-		
				TO	TA	L P	ROD	UCE.					
Carn Brea	657		£4	061	11	61	Wes	t Wh. Treasury 92		. £5	33	0	0

			TO	TA	LP	RODUCE.					
Carn Brea	657	£	4061	11	6	West Wh. Treasury	92		£ 533	0	
Tywarnhayle ?	889		9262	15	0	Wh. Agar St. Aub, & Grylls	44	****	170	10	(
Nancekuke	002		2000	10	0	St. Aub, & Grylls	33	****	171	4	- 6
Par Consols	285		2116	12	6	South Wh. Fortune	20			0	
Wh. Buller	273	****	1941	7	6	Wh. Friendship	17		54	19	
Aifred Consols	225		1384	16	0	Wh. Union	8			8	
Weilington Mines	220	** **	1387	16	0	East Wh. Treasury	8		23	4	
Levant	206		785	14	0	Godolphin	7		20	14	
West Wh. Seton .	111		447		6	Transfer with the same of the		137	10.00		

COMPANIES BY WHOM THE ORES WERE PURCHASED.

Mines Royal		£ 1481	16	2	
Vivian and Sons		3457	9	8	
Freeman and Co	264	1419	11	6	
Greenfell and Sons	497	2256	3	6	
Sims, Willyams, and Co		1353	12	6	
Williams, Foster, and Co	729	4369	1	2	
Schneider and Co	267	1266	19	6	
and the second s	-	-	-	_	
Total tons	2788	£15,604	14	0	

£15,604 14 0

Copper ores for sale on Thursday next, at Andrew's Hotel, Redruth.—Mines and Parcels.—Devon Great Consols, Wheal Josiah, Wheal Maria, Wheal Fanny, and Wheal Anna Maria 1817—West Carden 297—Marke Valley 383 Fowy Consols 250—Wheal Friendship 210—Holmbush 160—Phaenix Mines 181—Bedford United Mines 181—Wheal Pink 22.—Total quantity of ore to be sold, 3009 tons.

Copper ores for sale on Thursday week, at Lenderyon's Hotel, Truro.—Mines and Parcels.—United Mines 789—Tresavean 350—Par Consols 269—South Caradou 257—Wheal Comfort 170—South Tolgus 141—Treleigh Consols 195—Wheal Mary 93—West Wheal Jewel 59—East Wheal Rose 40—West Trethellan 22.—Total, 2325 tons.

QUARTERLY SALE OF COPPER ORES IN CORNWALL-SEPT. 30. Copper ores, 38,394 fons (21 cets.)—Fine copper, 3104 tons 12 cets. 2 qrs. 11 lbs.— amount of Money, 204,1918. 8s. 6d.—Average produce, 8 1-16th.—Average standard, 991. 15s.—Average price per ton, 51. 6s. 6d. in the weeks believes

MINING APPOINTMENTS DURING OCTOBER.

- MINING APPOINTMENTS DURING OCTOBER.

 12. Par Concols and East Crefty pay; West Treasury pay and setting.

 14. Fowey Consols sampling.

 15. East Pool and Fowey Consols account on the mine.

 16. North Roskear, North Pool, and Soton sampling: Wheal Mary account at Redruth.

 17. Ticketing at Redruth.—Devon Consols, and other mines.

 18. Budnick pay; Levant tutwork pay.

 19. Pay day at Fowey Consols, Great Consols, United, West Buller, Comfort, Treviskey, Agar, and Pendarves. Setting day at Levant Mine.

 21. Par Consols sampling; Condurrow account on the mine.

 22. Carn Broa and other mines sampling.

 23. North Pool and Treleigh Consols pay; East Grofty setting.

 24. Ticketing at Furuer—United, Par, and other mines.

 25. North Pool and Treleigh Consols pay; East Grofty setting.

 26. Pay day at Tresavean, Trethellan, Grambler, North Roskear, Fowey Consols, Condurrow, South Frances, Tywarnhayle, and West Seton; East Crofty subsist.

 29. North Pool account on the mines.

 30. No copper ore sampling this week.

 31. Ticketing at Redruth—North Roskear, North Pool, Seton, &c.

THAMES TUNNEL COMPANY.

The number of passengers who passed through the Tunnel in the week ending Oct. 5, was—No. of passengers, 17,429. —Amount of money, £72 12s. 5d.

T	TE.			4	187	100
of		PRICES OF MINING SHAR	BS.	n do Ali	40-	
his AT A- to PE-	**• As	it is exceedingly difficult to obtain a correct knewledge of ist in London, we trust the agents, and others interested, variding any corrections with which they may be acquainted resent as perfect a list as can be precured.	all a will a -ou	she m	ines in us, by i et being	lon g t
orts	11718	BRITISH MINES.			三流	9
In-	Share	L. Company			Price,	
	1000 1024	Alfred Consols (copper), Hayle, Cornwall		****	631 65	5
S.	1248 1624	Alit-y-Crib (silver-lead), Talybout, Cardiganshire Balleswidden (tin), St. Just, Cornwall	9	****		
20	128 905	Alfred Consols (copper), Hayle, Cornwall Allity-Crib (silver-lead), Talybont, Cardiganshire Balleswidden (tin), St. Just, Cornwall Ballason (Consols (tin), Uny Lelant, Cornwall Banristown (lead), Carrick, Iroland Bawden (silver-lead), Cornwall Badden (uliver-lead), Cornwall Bodford United (copper), Tavistock, Devon Birch Tor and Vittier (tin), Dartmoor, Devon Bishopstone (allver-lead), South Wales Black Craig (lead), Kirkendbrightshire Black Craig (lead), Kirkendbrightshire Blacenavon (fron), South Wales	424		20	
3.	905 3650 4000	Bawden (silver-lead), Cornwall	2	****	4 4.	
IL-	1280	Birch Tor and Vititer (tin), Dartmoor, Devon	104		5	•
uch	1500 5000	Black Craig (lead), Kirkendbrightshire	19	****		
and	8000 1024	Blaenavon (fron), South Wales Bodmin Consols (lead), Wadebridge, Cornwall Bodmin Moor Consols (tin and copper), Bodmin, Cornwall	50	****	124	
ke., ith-	5000	Bodmin Moor Cousols (tin and copper), Bodmin, Cornwall Bosorn (tin), St. Just Cornwall	1 34	****	10 15	24
nd	100	Boson (tin), St. Just, Cornwall Boson (tin), St. Just, Cornwall Botallack (tin and copper), St. Just, Cornwall Botallack (tin and copper), St. Just, Cornwall Bridford Wheal Augusta (lead), Bridford, Devon British Iron, New, regis. (tron), South Wales Ditto ditto, scrip Bryn-Arian (lead). Cardigraphics	182			50
rom	10000	British Iron, New, regis. (iron), South Wales	12		8	
	2400		10		10	ķ
W.C.	107 406	Budnick Consols (tin), Perranzabuloe, Cornwall Butterdon (lead), Menheniott, Cornwall	521		5 54	1
NG.	2000 1000	Bwlch Consols (silver-lead), Cardiganshire	26		6	
	1000	Butterdon (lead), Menieniott, Cornwall Bwieh Consols (silver-lead), Cardiganshire Callington (lead and copper), Callington, Cornwall Camborne Consols (copper), Camborne, Cornwall Camborne Consols (copper), Camborne, Cornwall Cameron's Steam Coal (coal), Swansea, Wales Caradon Great Cons. Mines (copper), Linkinhorne, Cornwall Caradon Vale (copper and lead), St. User, Cornwall Carbons (tin and conport), Crowan, near Camborne	7	****	7 8	
11.20	1168 256	Caradon Great Cons. Mines (copper), Linkinhorne, Corn.	7		3	
ail- 500	1536	Caradon Vale (copper and lead), St. Ive, Cornwall	24	****		
ete.	1000	Carn Brea (copper and tin), Illogan, Cornwall,	15	****	117 1	128
	3000	Carthew Consols (cop. & lead), near Wallebridge, Cornwall	213	****	60 80	
	200 113	Cefn Bruno (lead), Cardiganshire	220	****		
3.	500	Comblawn (lead), Callington, Cornwall	5		48	1
	128 256	Condurrow (copper and tin), Camborne, Cornwall	45 20	****	110 110 15 7 74	20
	2560 1000	Cook's Kitchen (copper and tin), Illogan, Cornwall Coombe Valley Quarry (slate), St. Ginnis, Cornwall	14	****	7 74	ľ
	1000	Copper Bettom (copper), Crowan, Cornwall	10	::::	7	
Co.	211 256	Craddock Moor (copper), St. Cleer, Cornwall	27	****	8	
Co.	1000	Garthew Consols (cop. & Ioad), mear Wadebridge, Cornwall Garvannall (copper), Gewnnan, Cornwall Comb Bruno (lead), Cardiganshire Charlestown (tin and copper), St. Anstle, Cornwall Combava (lead), Callington, Cornwall Comfort (copper), Gwennan, Cornwall Condors (Copper), Gwennan, Cornwall Condors (Copper), Gwennan, Cornwall Condors (Ringer), Copper and tin), Ilogan, Cornwall Combe Valley Quarry (slate), St. Ginnis, Cornwall Count Grange (aliver-lead), Cardiganshire Cradidock Moor (copper), St. Cilcer, Cornwall Cradidock Moor (copper), St. Cleer, Cornwall Crane and Bejawsa (copper), Camborne Cwm St. (lead), Cardiganshire Cwm St. (lead), Cardiganshire Daren (silver-lead), Cardiganshire Daren (silver-lead), Cardiganshire Daven (silver-lead), Dardam Davon and Courtenay Consols (copper), near Tavistock Devon Grat Consols (copper), near Tavistock	4		31 31	
	1000	Daren (silver-lead), Cardiganshire	60		8 84	ì
Co.	7100 1040	Derwent (silver-lead), Durham	10	****	3	
00.	1024	Davon and Courtenay Consols (copper), near Tavistock. Devon Great Consols (copper), near Tavistock. Diurode (copper), Ireland Dolcoath (copper and tin), Camborne Drake Walls (tin and copper), Calstock, Cornwall. Durham County Coal (coal), Durham Dyfngwm (lead), North Wales East Balleswidden (tin), Sancreed, Cornwall East Birch Tor (tin), North Bovey, near Ashburton East Buller (copper), near Redruth, Cornwall. East Carn Brea (conner), Redruth, Cornwall.	1 2	****	225 25	27
	182 2560	Dolcoath (copper and tin), Camborne	30	****	20	
-	10000	Durham County Coal (coal), Durham	45		2 3 9	
1	3000 1024	East Balleswidden (tin), Sancreed, Cornwall	10		10	
10	2500 1024	East Birch Tor (tin), North Bovey, near Ashburton	3 2		51 6	
	128 2048	East Carn Brea (copper), Redruth, Cornwall	76		3	
	150 256	East Duren (lead), Cardiganshire	11		21 1 24 13	
-	4000	East Gunnis Lake Junction (copper), Gunnis Lake			2.4	
	128 256	East Buller (copper), near Redruth, Cornwall. East Carn Brea (copper), Redruth, Cornwall. East Crowndale (fin), Tavistock East Daren (lead), Cardiganshire. East Godolphin (copper), Crowan, Cornwall. East Godolphin (copper), Crowan, Cornwall. East Guns Lake Junction (copper), Gunnis Lake. East Pool (tin and copper), Pool, Illogan, Cornwall East Stom and Wheal Maude, near Redruth, Cornwall East Tamar Consols (silver-lead), Beer Ferris, Devon East Togan (copper), Redruth, Cornwall East Trescoll (tin), Lanivet, near Bodmin, Cornwall East Twantingly (copper), St. Aurels. Cornwall	15		80	
	9000 256	East Tamar Consols (sliver-lead), Beer Ferris, Devon	18	****	12 14	
	1000 128	East Trescoll (tin), Lanivet, near Bodmin, Cornwall	1	** **	14	
	94 512	East Wheal Crofty (copper), Illogan, Cornwall	125		110 12	0
	128	East Wheal Rose (silver-lead), Newlyn, Cornwall	50		500 52	15
	1280 248		11	****	3 31	
e	494 1024	Exmoor Wheal Eliza (copper), South Molton, Devon	13		30	
6	256 4000		41		23	
6	100	General Mining Company for Ireland (copper), Ireland Goginan (lead), Cardiganshire	5		200	
6	256 2500		444		16	
6	256 96	Grambler and St. Aubyn (copper), Redruth, Cornwall Great Consols (copper), Gwennap, Cornwall	1000	****	28 30 250	7
6	512 3072	Grambler and St. Aubyn (copper), Redruth, Cornwall Great Consols (copper), Gwennap, Cornwall Great Wheal Baddern (tin and silver-lead), Kea, Cornwall Great Wheal Mitchell Consolidated, Lanivet	20		100	
0.	512 6000	Grown Slate Company Camelford Commell	29		20	
6	1026	Gustavus Mines (copper), Camborne	3	** **	2 3	
6	512 1024	Glustavus Milies (copper), Camborne Hawke's Point (copper), Uny Lelant, Cornwall Hawkmoor (copper), Oststock, Gunnis Lake. Heignston Down Consols (copper), Calstock, Cornwall.	5		17	,
6	6000 1500		24		3 31 21 3	
6	512 10000	Herodsfoot (lead), near Liskeard.	16		134 1	4
6	1900	Holmbush (lead and copper), Callington	23		20 25	
0	1024	Kingsett & Bedford (lead & copper), St. Mary Tayy, Devon	34		2 3	
0	2018	Lamberone Wheal Maria (copper and tin), Lamerton		****	51 51	
0.1	259	Lanarth Consols (cooper), Gwennan, Cornwall	_			

1026 1000 4934 2048 1000 1160 1024 1000 512 1000 1020

1100 256 256 1024 300 9000 256 256 2000 256 124 256 10000 128 256 10000 128 256 10000 687 6000 687 6000 128

BRITISH MINES-OW Tolearna (Hin and copper), Camborna, Cornwall Tramack United Mines (in and copper), Helston, Corn, Troboll Consol. Troboll Consol. (lead), St. Teath, Cornwall Tregords (silver-lead) near Bodmin, Corawall Tregords (silver-lead), Menheniot. Treloigh Consols (copper), Redrath Treloigh Consols (tin), St. Ive's, Cornwall Treloigh Consols (tin), St. Ive's, Cornwall Trenance (copper), Gwennap Treville (lead), Lawanick Treloigh (lead), Lawanick Treloigh (lead), Lawanick Treloigh (lead), Lawanick Treloigh (lead), Lawanick Treville (lead), Lawanick West Evolution (lead), Cornwall West Forwidence (lin), St. Erth, Cornwall West Forwidence (lin), St. Erth, Cornwall West Fredienla (long-lead), Carlisons West Wheal Friendship (copper), Genoma, Cornwall Wheal Adam (lead), Christow, Ereder Wheal 8 10 16 18 2½ 5 20 7 8½ 3½ 4 130 20 35 265 5 6 7 2½ 50 140 2048 1024 2500 512 200 120 512 10 20 110 120 20 14) 151 3 4 3 3) 10 12 23 34 34 524 54 64 1 14 8 10 51 52 11 51 52 12 14 6 5 6 8 44 45 21 15 15 4 62 4 38 40 4 41 7 2 5 60 1 FOREIGN MINES. 1 14 34 4 10 11

From the Board of Trade returns we extract the exports and imports of metals for the month ending 5th September, as well as the corresponding month of last year. It will be seen that the exports of pig-iron, wroughtiron, copper, lead, and unwrought tin, show a considerable decrease:—

Metals.	1849.		1850.
Iron, pigTons	17,248	**********	
Bar, bolt, and rod	47,361	******	46,922
Wire	3)1	**********	
Cast	2,579	*********	2.390
Wrought of all sorts	13,902	************	
Shael nawronght	769	**********	
Conner, in bricks and pigs Cuts.	19,573	**********	13,204
Sheets, nails, &c. (including mixed or yellow metal			Children
for sheathing)	24,995	** * * * * * * * * * * * * * * * * * * *	
Wrought of other sorts	1,683		
Brass of all sorts	2,673	**********	
Tood Tons	2,667	**********	
Tim mawronght	4,737		2,877
Tin-plates Value £	26,416	***********	£23,960
The chief feature of the import returns is a la	noon Suno	rouge in mns	rongh
The chief feature of the import returns is a lar	ige me	tease in this	Tough.
iron, of which the imports are more than double	those	of last year,	WHIIST

hiel reawhich the imports are
ght copper shows a large decrease:

Metals.
e and regulus (entered under Act 8 and 9 Vic. c. 90)

of metal.

dunder Act. 11 and 12 Vic., c. 137, and previous redunder Act. 11 and 12 Vic., c. 137, and previous redunder Act. 11 and 12 Vic., c. 137, and previous redunder Act. 11 and 12 Vic., c. 137, and previous redunder Act. 11 and 12 Vic., c. 137, and previous redunder Act. 11 and 12 Vic., c. 137, and previous redunder Act. 11 and 12 Vic., c. 137, and previous redunder Act. 11 and 12 Vic., c. 137, and previous redunder Act. 11 and 12 Vic., c. 137, and previous redunder Act. 11 and 13 Vic., c. 137, and previous r unwrought copper shows a large decrease:-1850.

Lead, pig and sheet	** ** ** ** ** **	. 663	
The following shows the value of rexported in the month ending 5th Sep	nineral pr	oduce, of	English ori 1950:—
Mineral produce.			1850.
Alkali	£ 35,365	*********	£ 38,255
Coals and enim		********	
Earthenware		** ** ** ** ** ** *	
Glass		*********	
Hardwares		********	
Machinery		********	
Fron and steel		** ********	
Tin	74,368	*********	
Galt	96 410	********	

CURRENT PRICE OF GOLD AND SILVER.

Total £1,325,000

Foreign gold, in barsper oz. £3 17. 9 | New dollars........per oz. £0 4
Portugal pieces.... 0 0 0 | Silver in bars (standard) 0 5

NOTICES TO CORRESPONDENTS.

A. B. G." (Cheltenham).—A meeting of shareholders in the Asturian Mining Company was held on the 10th September; our reporter, as well as the other members of the public press, was rigidly excluded. The recolutions passed at the meeting were far-nished to the different journals by Mr. Mackensie, the secretary; we cannot avouch for their accuracy, but we believe that gentleman would not have given them unless they had been correct. We are sorry that the subject in discussion were such, that they would not bear the scrutiny of the public press.

man been correct. We are corry that the subject in discussion were such, that they would not bear the scrattiny of the public press.

"An Inquirer" (Redruth).—An easy method to calculate the power of a water-wheel would be to add its diameter and width together, and then aquare the same. Multiply the contents by gailons of water contained in one bucket, which will give the number of lbs. weight the wheel is capable of lifting, allowing one-eighth for friction, thus—Suppose a wheel 40 ft. diameter, with 4 ft. breast, the buckets 22 inches in width, 13 in. deep, and 6 in. across—width and diameter 44 fost, which squared gives a result of 1936, which again multiplied by 11 gallons, being the contents of one bucket, makes a total of 23.748 lbs. weight, from which deducting one-eighth for friction, leaves 90.780 lbs., or 10 tons 7 cwts. 2 grs. 24 lbs. Assuming the bucket, exclusive of ring, at 42 inches, and depth of bucket is inches, with 6 inches width, the result would be 3376, which divided by 2173, being the cubical or solid influes contained in a gallon, gives 11 gallons 3 quarts to each bucket, as above stated. The power of the wheel would thus be, according to the rule laid down for estimates of this nature by Boniton and Watt, 103 9-10th horse-power, or, in other words, 200 lbs. per horse, to draw over the pulley at the rate of 234 feet per minute.

James Harris (Redruth).—Try the wathing tables used in Germany, if the patent separators will not efficiently dress your ore.

"W. B." (Leeds).—We neither recommend or disparage any mining adventure—your best course is to apply to a respectable broker, the addresses of several of whom are to be found in our columns.

be found in our columns.

H. J. "(Dudley)...—There is no comparison in the speed which has been obtained on the Great Western Rallway with that of the narrow gange—on the former, upwards of 76 miles have been fairly run in the hour, while on the latter the utmost speed has been somewhat ever 60. An engine was built for working the Bromsgrove Lickey Incline, but 1000 tons have never been taken up it, without assistance—which, indeed, we consider quite impossible.

sider quite impossible.

Mark Lewis (Derby).—But small quantities of potter's lead have been found in Spain
nearly all are sulphurets.

nearly all are sulphurets.

W. N." (Edihourgh).—The earliest application of gas light on a large systematic was made at Manchester, where an apparatus for lighting the great cotton-mi Moreover. Phillips and Lee was fitted up in the years 1804 and 1805, under the dire of Mr. Mardoch. A quantity of light nearly equal to 3000 candies was produced or

occasion.

E. J. C." (Broad-street).—The Quenangen Mines are about eighty miles distant from the property possessed by the Alten Mining Association.

E." (Apr).—Horse-power is used on the Norfolk and Lynn Railway, and on the branch line from Ashcurch to Towkesbury, on the Bristol and Birmingham Railway. Write to Mr. Clay, the manager of the Norfolk and Lynn Railway, who will give the required information.

ames Halford (Manchester).—Apply to some of the mining companies which are e meeted with Australia.

J. Browne (Norwich).—We have never heard of the property which you mention must be some inconsiderable lode, which has no doubt been got up to delude indiduals, else why should it be so well known in the east, while those in the west knowning of it?

nothing of it?

T. B. L."—The affairs of the Company of Copper Miners in England are not yet arranged; probably titey may be enabled to come to terms with the Bank of England. One of the independent shareholders, who has already been in dispute with the Governor and Court of Assistants is, we hear, likely to commence proceedings de now.

B. "(Leeds).—Newcastle obtained the first charier on record to dig for coals; this was in 1239, and in 1231 the export was considerable. A cubic to do, of average quality, weighs from 75 to 80 lbs.; and an acre, 2 feet thick, will yield 3000 tons, and 5 feet thick, Will yield 3000 tons.

thick, 8000 tons.

A Miner " (Helaton), —The distance from Panams to San Francisco is about 5500 miles. The Isthman of Panama, where it is at present usually crossed, is about 70 miles in length—50 miles from Chagres to Cruces, and 30 miles from Cruces to Panama. The former distance is performed in boats in about 48 hours, the latter on the backs of mules in 10 hours. A boat from Chagres to Cruces costs about 104, and a mule from Cruces to Panama costs about 24. Mazatian, Acapulco, and San Blas, are the principal ports touched at by the Californian and Panama steamers. The highest price for a passage to California from England, by way of the Isthmus, that is a saloon passenger in steamers, is rather over 1301. The lowest sum as fore cabin passenger, provided he has a companion to share the brat passage from Chagres to Cruces, is rather under 704.

A Novice " (Glasgow) ahould procure Budge's " Miners' Guide," Mitchell's " Manual of Practical Assaying," and our " Glossary of English and Foreign Mining and Smelting Terms."

ing Terms."

W. R." (Lewes).—The Tavistock United Mines comprise the Tavistock Consols and the Wheaf Anderton setts. They are divided into 1024 shares, at 104. each.

Wheal Anderton setts. They are divided into 1024 shares, at 101. each. The third paper, on the Geological and Mineral Features of certain Districts in North Wales, by St. Pierre Foley, C. and M.E., will appear in next Saturday's Journal. We shall, next week, publish an elaborate paper, with engravings, on Improvements in Forging Iron, by Mr., James Nasmyth; also another on the Emery of Asia-Minor, and the Minerals Associated with it (Geologically), by M. J. L. Smith; and Mr. Mushet on the Form of the Blast-Farnace.

Received—"J. J. A." (Longhor); "A Reader" (Newbridge); "M." (Redruth); "A Durham Pilman;" R. Moore (Peter Tavy); and "Nautious" (Cardiff.)

DEVON GREAT CONSOLS MINING COMPANY.—The able and interesting account of valuable mines, by Mr. J. H. Marchison, having been for some time out of prin that gentleman having kindly consented to revise it up to this time for re-public we intend to present it again to our readers NEAT SATORDAY.

. It is particularly requested that all communications may be addressed— TO THE EDITOR,

26, FLEET-STREET, LONDON

And Post-office orders made payable to Wm. Salmon Mansell, as acting for the proprieto

THE MINING JOURNAL Railway and Commercial Sagette.

LONDON, OCTOBER 12, 1850.

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When the comprehensive alterations took place in our tariff, it vas expected by the sanguine upholders of free trade that, in a short period, we should have other nations reciprocating and following in our wake. Unfortunately, with one or two trifling exceptions, it has been clearly proved how delusive were those anticipations, and upon what erroneous data they must have been based. A correspondent, in an able article, which appeared in our Journal of the 31st August, pointed out the disadvantages and heavy fiscal duties which British iron was subject to in the States forming the Zollverein of Germany, although we received yearly from those countries great quantities of cereal produce, which is now admitted here at a nominal duty. It has often been said, that if you wish to make a person your enemy, the best way is to confer an obligation on him; and this axiom holds good with nations as with individuals. No country in the world owes such a debt of gratitude to Great Britain as Spain; and in no country are we so disliked and envied as in the peninsula. When the iron hand of Narolbon had overthrown the idiot dynastry which misruled that kingdom, it was the armies of England who chased the invader across the Pyrenees. After the pacification of Europe, when money was required to recruit the exhausted finances of the State, it was British capital which supplied their wants, under guarantees which have never been kept, and Castilian faith which might now appropriately be styled "Punic." Had it not have been for the services of the British legion, another dynasty would have been seated on ceptions, it has been clearly proved how delusive were those antiunder guarantees which have never been kept, and Castilian faith which might now appropriately be styled "Panic." Had it not have been for the services of the British legion, another dy nasty would have been seated on the throne of the PHILLIPS; and the present reigning powers probably would have sought shelter on our hospitable shores. How have the Spaniards acquitted themselves to us?—By a most illiberal policy, and the levying of heavy duties on our produce, which almost amounts to a prohibition. We should have thought that the example of other nations, and their own experience, would have shown the Spaniards the folly and impracticability of their present high tariff, which can only be considered as a premium to smuggling—an incentive to crime—which daily demoralises the population without giving any benefit to the revenue. To those who have travelled in the peninsula, the fact is notorious, that there are organised bands of contrabandistas, who solely obtain their livelihood by following their nefarious calling. To repress this, a large force, technically called carabineros, from the weapon they employ, is attached to the Custom-house; and sanguinary encounters between them and their opponents are of daily occurrence—the latter having the sympathy of the population with them, generally carry their point vi et armis. It has been reckoned that the number of smugglers in Spain can be calculated at about 60,000 individuals. The employes of the Customs nearly double that number. They are generally selected from the dependents of the Minister

for the time being, and are, in fact, a sort of standing army for political purposes—being aware that, on his fall, his successor would disband them and appoint oftlers; hence, under the present system, the difficulty of carrying any comprehensive measure into effect—in fact, the only Minister in Spain who was ever guided by a real liberal policy (we allide to Bapantereo) was obliged to lay down his office and fly the country.

Although possessing large deposits of coal and iron, the Spaniards have hitherto availed themselves of these gifts of Nature only in a slight degree, and so great and unconquerable are their prejudices, that we have seen in the neighbourhood of a coal mine in the Asturias a Spaniah smith using charcoal to his forge fire.

According to the present tariff, the duties on steel are 30 rials the quintal (100 lbs.) in Spanish ships, and 40 in foreign bottoms; cast-steel, 45 and 60 rials; iron wire, 36 and 48; cast-iron to fine metal, 18 and 21; wrought-iron, 40 and 48; iron hoops, 34 and 41; sheet-iron, 15 and 20. If we calculate the pound sterling at the par of exchange, which would give about 96 rials, it will be seen that steel pays a duty in Spanish ships of about 60. 5s. per ton, and in foreign bottoms, 8d. 7s. per ton; pig-iron, 1d. 13s. and 1d. 19s.; and other goods in preportion. These duties, it will be seen, are sufficiently onerous, but are not sufficient to satisfy the rapacity of the Spanish ironmasters; a petition was presented by them to the Cortes last session, but as the period was so late, the memorial was referred to the Tariff Committee (Junta de Aranceles), and it is stated that in lieu of the above duties the following will be imposed:—Steel, 56 rials in Spanish ships, and 66 rials in foreign bottoms; pig-iron, 2d. 2s. and 2d. 1ss., and other goods in proportion.

It is hoped that Lord Howden, our able and active Minister at the Court of Madrid, will remonstrate against this most retrogressive act. Not only will be confer a benefit on the British iron trade, but likewise

In our Journal of the 13th of April, we ventured to point out to the producers of iron and coal the propriety of diminishing their make and get. From all that we have since been able to learn, it appears that the production has even been on the increase, and that apparently the trade is being pursued on a solid and healthy basis. If we could really believe this, no one would be more gratified than ourselves at the sound prosperity of these two great and important branches of our commerce; but, unfortunately, we must say we feel a little scepticism on the subject, and are inclined to coincide in the old proverb, that "All that glitters is not gold." As is well remarked by a respected Birmingham correspondent, it is not a sine qua non that if our manufacturers are receiving large orders, even more than they can conveniently execute, that they are doing well. The cost of production, interest on capital, and other charges, have first to be taken into comideration, before profits can be reckoned. Within the last few years, the price of provisions have been lowered at least 30 per cent; the market has been thrown open to foreign competition, while the local rates and taxes have increased; and, at the same time, it must be calculated that wages have not been reduced. We by no means advocate that the working classes should receive aught but a fair day's pany for a fair day's labour; but, at the same time, we must look at the condition of those who have to pay them. Under the protective system, it required, to pay the heavy duties, a person embarking in several trades to be possessed of a moderate sum of money. Now, there are many trades which require no capital but the energy and enterprise of the speculator, who, requiring no funds, is able to comptet with those who have invested their all if extensive working plants, and, for their credit's sake, are obliged to maintain hem as they were won't to do in the most favourable periods. From statistics which have been carefully gathered, we have arrived at the melancholy co

CALIFORNIA AND THE CURRENCY.—The question of wheu and how far the value of our circulation is to be affected by the influx of gold from California was the subject of much attention a few months since, when California was the subject of much attention a few months since, when no one, unless gifted with prophecy, could answer it. It now admits of a more practical reply. It is an established principle that, when any article of commerce becomes more abundant, it becomes at the same time cheaper. So it is with gold, with our golden sovereign, and with our paper pound sterling, which is exchangeable for a sovereign; but, unlike other articles, gold does not change in nominal price—it being measured against itself. Whatever amount may be brought from the mines into this country, it will always remain worth 3l. 17s. 10½d, the ounce, so long as an ounce of gold is by our law converted into coin bearing that nominal value. To ascertain, therefore, a fall in the value of gold, we must observe the risi in the cost of all other articles—in most of which the fluctuations in price are far too great to allow us to discern the slight variation which is caused by the fall in gold. Such, however, is not the case with silver; it is nearly as steady in price as gold; therefore, whatever fall takes place in the price of that metal, it will be first shown in the rise of silver, because in no other article would an advance of 1 or 2 per cent. he worthy of notice Silver is now quoted at 5s. 0½d, per ounce, which is about 1½ per cent. higher than we should have otherwise expected it to be in the usual cours of trade; and this slight advance in the price of silver we confidently assume to be caused by a fall in the price of gold, consequent upon the unusual influx of that metal from California.

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TREATMENT OF COPPER ORES.-No. II.

Mercuma, Esq., F.C.S., anthor of a Manual of Pro

The first paper on the treatment of copper ores in Wales was published by J. Vivian, Esq., in the Annals of Philosophy for 1823, since which time, until 1848, little or nothing was written descriptive of the process in question. In the last-named year, however, Le Play published a very complete and most elaborate work on this subject, from which, Mr. Vivian's paper, the author's experience, and other sources, the following accoun

plete and most elaborate work on this subject, from which, Mr. Vivian's paper, the author's experience, and other sources, the following account will be collated:—

The Welah method of copper smelting is based upon the same principles as those followed, with but one or two exceptions, in all the metallurgical groups of Europe. This will be further illustrated when treating of the methods followed on the continent. All ores, whatever may be their nature, are treated in a fusion furnace, containing a sufficiency of sulphurets of copper and iron to concentrate the whole of the copper in a compound, chiefly consisting of sulphur, copper, and iron, which is technically termed "metal," which, on account of its fluidity and great specific gravity, separates readily under the influence of the high temperature at which it was produced, from the more pasty and always lighter slag, which contains nearly all the earthy and other fixed elements introduced—this slag is always rejected. The metal may be considered an enriched ore, nearly free from earthy matter, but it always contains lime, magnesis, baryta, &c., which, although present in small quantity, exercise a very considerable influence on the resulting metallic copper, from the fact that they are in chemical combination. This opinion differs from that of Le Play and others, who consider that no earthy matter is present. A carsful analysis, however, always reveals the existence of one or more of the earths, existing most probably as a double sulphure with the copper, or a triple sulphuret, with copper and iron. The metal is, therefore, a triple case, may be reduced to two operations. The first operation is a calciustion, during which, under the influence of atmospheric oxygen, and a high temperature, the greater part of the sulphur is volatilised as sulphurous acid, and the two metals of the decomposed compound oxidised, but only partially. The second is a fusion; when under the influence of a very high temperature, certain reducing agents and silica, the copper is red

equally fluid, but which, by reason of their very unequal density, separate readily one from the other; the silicate of iron, or slag, alway occupying the upper stratum.

The copper thus obtained in contact with silicate of iron, and a quantity of regenerated "metal," generally contains a certain proportion of iron and sulphur, and is thus unft for the greater part of the uses to which copper is applied. This can be prevented, however, by proper management, as the author has proved on a considerable scale. This impure product, called black copper, is converted into pure copper by an operation called refining, in which, under the influence of heat, atmospheric oxygen, and silica, the least traces of foreign matters are separated—that is to say, the sulphur as sulphurous acid, and the iron as silicate. The addition of a small quantity of lead is sometimes requisite when the refining is obstinate. The copper, however, is not yet fit for the market for sheathing. See, it must undergo a process called poling or toughening. This operation, as its latter name expresses, is instituted for the purpose of giving tenacity to the metallic copper, which, after the refining, is to a considerable extent destitute of that property.

The treatment of the sulphur ores of copper is thus comprised in four fundamental operations:—A, the melting, in which the "metal" is separated from the slag, or greater part of the earthy matters; B, calcination of the metal; C, melting the calcined metal for black copper; D, refining the black copper; but in the application in various localities of this sufficiently simple formula, many modifications, due to the extreme variety of the minerals, are introduced. Among the circumstances which tend to complicate the preceding formula, are more particularly the following—all due to the composition of the minerals to be smelted.

If the gangue of the ore is essentially iron pyrites, it is impossible to materially enrich it by submitting it to the operation. A because all the

the minerals, are introduced. Among the circumstances which tend to complicate the preceding formula, are more particularly the following—all due to the composition of the minerals to be smelted.

If the gangue of the ore is essentially iron pyrites, it is impossible to materially enrich it by submitting it to the operation, A, because all the elements of the mineral would combine, and form a metal having very nearly the composition of the ore itself. It is, therefore, evident that in this case the ore must undergo an operation analogous to the calcination, B, in which that portion of the iron and sulphur, which is not essential to the formation of a good metal is separated. This preparatory operation may be called calcination of the ores, a.

The ore suitably calcined in a is precisely in the state of a rough ore, containing the quantity of sulphuret of iron necessary for the fusion, A. The gangue in this case is oxide of iron, which must be passed into the slag by the addition of a siliceous flux. It is evident that the possession of an ore of copper, having a siliceous matrix, would in this case be a great advantage; for, by mixing it with either the rough ore or the calcined ore, a, its copper would unite with the proper proportion of sulphur and iron to form metal in the melting, A, and thus the addition of a perfectly werthless matter—as sand, for instance—would be avoided. Very siliceous, and, consequently, very poor ore, can be advantageously employed in the fusion, A, ores in which the metal contained as oxide (suboxide, black oxide, green and blue carbonate, silicate, &c.). In this case, however, it is necessary to leave in the calcined ore, a, not only the quantity of sulphuret of iron necessary to form the metal, A, with the copper contained in the ore, but also enough to bring to the desired state of sulphuration the copper of the oxidised compounds added. If independently of the preceding ore very rich ores, with a quartzose gangue, are at hand, they cannot be added to the fusion, A, without enric

this tann in the first metting. Some smelters fall into great error in thus throwing back their rich oxidised ores at first; for the metal obtained from such operations can seldom or ever be refined to the proper pitch, owing to the presence of certain substances which, once present, can scarcely or ever be perfectly separated by this operation. This will be explained in its due place.

These examples suffice to show how the possession of ores, differing greatly in composition and per centage, serve to modify the fundamental operations, as already described, in their various applications. Another essential cause of complication is found in the presence of certain injurious substances, associated with many of the ores; they must either be expelled in the gaseous state, or must be got rid of in the slag, otherwise the copper produced will be of inferior quality. Amongst these substances may be mentioned arsenic, antimony, tin, nickel, cobat, the earthy metals, and probably some other substances, not yet noticed, either because a thorough examination has not been instituted, or because the quantities operated on have been too small. This is a point to which few chemists direct their attention in the examination of manufacturing products, ores, &c., for quantities of certain substances, which it would be totally impossible to detect, much more estimate, in the usual amounts employed in analysis, would completely overthrow the good working of any factory. This fact I am afraid has much tended to influence the apparent value of the services capable of being rendered by the chemist to the manufacturer, on account of the frequent failures of alterations, &c., recommended by an

I am afraid has much tended to influence the apparent value of the services capable of being rendered by the chemist to the manufacturer, on account of the frequent failures of alterations, &c., recommended by an otherwise thoroughly competent person.

The substances stready mentioned as being injurious have a tendency to separate from the cupiferous products in the operations preceding the production of black copper, arsenic, and antimony, volatilise either directly in the calcinations, or especially after conversion into oxidised compounds. Metals, such as nickel, cobalt, &c., separate by the united influence of calcination and melting, by which all the substances more oxidisable than copper are, by preference, converted into oxides and silicates; but these reactions are never or seldom produced in a complete manner. Thus, for instance, in a calcination the sulphuret of arsenic, as well as many other metallic sulphurets with which it is associated, is not fully and entirely exposed, in all its parts, to an oxidising influence; the arsenic of the portion attacked is not entirely converted into volutile arsenious acid; a certain portion is induced, by the presence of metallic oxides, to pass to a higher state of oxidation, and remains as arseniate in the fixed product of calcination. In the melting following this calcination the unsattacked sulphuret immediately forms part of the "metal." The arseniate is decomposed under the influence of silica, which removes the metallic base; the acid is set at liberty, and partly decomposed into oxygen and arsenious

acid, which pass off, but under the influence of the sulphur always present in the metal, another part of the arsenic forms sulphuret, a portion of which is volatalised; but another portion becomes fixed in the metal, in consequence of the affinity of the sulphurets of copper and iron, and the alkaline metals with which it is in contact, and thus again is frecombined after this series of transformations. Each calcination and each melting thus expels a considerable quantity of arsenic, but leaves in the cupiferous product a notable proportion of that which existed before the double elaboration. To expel the whole of the arsenic contained in certain ores, or, at least, to leave in the copper only an insignificant quantity, it is necessary to repeat many times the alternate calcinations and meltings in the "metal" before obtaining black copper. It is, therefore, not uncommon to find in some works where this end has to be attained that there are two calcinations and meltings between the fundamental operations, B and C. For like reasons these supplementary operations are indispensable when it is necessary to completely separate some other injurious substances from copper. Many other reasons also urge a modification of the fundamental formula in treating copper ores; but by confining ourselves to two cases which are most general, it will be seen that, in order to manufacture good copper with ores of all per centage and qualities, nine operations are generally required:—

a, Calcination of eres with pyritous gangue.
A, Melting of calcined ores, a, with the poorest and most impure rough ores —forma on of first metal. or para meed.

—Calcination of meetal A.

—Melting of calcined metal, B, with cres of mean per centage and purity—form metal.

econd metal.
 d. — Melting of calcined metal, c, with rich and pure ores—formation of third metal.
 e. — Calcination of metal d.
 e. — Calcination of metal.
 e. — Calcination of metal.
 e. — Melting of calcined metal, e, with very rich and pure ores—formation of black copper.
 D. — Refining of black copper.

The above summary appears to point out the chief principles in the centment of copper ores, to show the analogy existing between the contiental and Welsh methods, and to forcibly urge on the notice the pecunental and relatter.
[To be continued in next week's Mining Journal.]

IMPROVED METHOD OF ESTIMATING TIN.

Hitherto in chemical analysis tin has always been estimated in the form of stannic acid (peroxide of sin). The difficulty of the manipulations, or rather the minute care that they require, the time necessarily spent in its preparation, washing, and drying, as well as the inevitable inaccuracy of the process, form often a hinderence to the analysis of this metal. The the process, form often a hinderence to the analysis of this metal. The new method depends on the employment of a normal test liquor, and possesses a simplicity and correctness not otherwise attainable. The process depends on the facility with which protochloride of tin withdraws chlorine from bodies capable of furnishing it. If we pour the orange-coloured solution of perchloride of iron into protochloride of tin (which is colour-less), the former salt will give up one atom of chlorine, converting it into the colourless perchloride, and will itself be reduced to the (colourless) protochloride of iron. Fe² Cl³ + Sn Cl = 2 (Fe Cl) + Sn Cl². The decloration of the iron takes place, therefore, as long as the tin requires more chlorine; but as soon as the protochloride is perchlorinized, the smallest additional drop of the iron liquor will give a strong orange tint, and thus show that the operation is at an end. If the strength of the iron solution be known, we know at once the quantity of tin sought for. This system of analysis (with normal test liquors) is so much in use that all particulars may be omitted, except those relating expressly to tin. For this purpose 1 or 2 grammes (15 to 30 gr.) of the substance to be examined are placed in a pint flask, with a mixture of 1 part nitric with 6 parts of muriatic acid, and boiled until the liquid turns yellow, and emits a strong, odour of chlorine. The tin is now in solution as protochloride. Zinc is now added, until the liquid becomes clear, colourless, and transparent. Then, with a graduated dropping tube, a solution of perchloride of iron of a known strength is added, until a faint tinge appears, and the amount of tin is found by a simple computation. The addition of some water to the liquor to be tested is useful, especially in examining alloys which contain copper. Arsenic is the only metal which interferes with this process. Tin containing this substance must be strongly heated for some time in a crucible, when the arsenic is volatilised, and the residue may be tr new method depends on the employment of a normal test liquor, and pos-

THE GAS COMPANIES.

If the price of coal regulates the price of gas, which was pretty often alleged during the late agitation of the question of a supply of gas to the metropolis, it seems to be a rule that admits of the most remarkable exceptions. As an example, we will take the first name in the return from gas companies, just published. Accrington pays 9s. 3d. and 14s. 3d. per ton for coals, and charges 7s. to 4s. per 1000 cubic feet. We must support

gas companies, just published. Accrington pays 9s. 3d. and 14s. 3d. per ton for coals, and charges 7s. to 4s. per 1000 cubic feet. We must suppose the proportion between the prices of coals and gas to be perfectly just. It gives on the average 11s. 9d. for coals, and demands 5s. 6d. for gas. Then, the next place, Ashton-under-Lyne, gives 7s. 6d. and 14s. 6d., or an average of 11s. for coals, and charges 5s. 6d. for gas. On this difference in the price of coals, the Ashton Company have 10l. rate per cent. of dividend, while the Accrington Company have only 5l. As the coals at Ashton are 11s. the gas should be only 5s. 3d., on the supposition that the ratio of gas to coals at Accrington is fair to the consumers.

On the same supposition, Croydon might charge 8s. 10d. for gas, as the coals cost 19s.; but the charge is only 7s. The amount of paid-upcapital here is 20,000l., and the rate per cent. of dividend is 5l.

More striking differences than the above are exhibited in the return, but our only object was to show the want of regularity. We have always understood the proportion at Manchester to be reasonable. In that city the gas-works are public property, and the profits are devoted to the public service. The gas is of a superior quality, and the management of it has been productive of much profit and advantage to the inhabitants. The price of coals is returned at 15s. 6d., or exactly the same as the price returned by the Commercial and Rateliff Companies in London. In Manchester the price of gas is 4s. 9d.; but these companies charge 6s., or 1s. 3d. more, for every 1000 feet consumed. Another very striking difference is found in Manchester, the rate per cent. of dividend is 10l. 3s., the highest except at Wigan; but the rate returned by the Commercial Company is 6l., and by the Rateliff 5l. Wigan returns the rate per cent. of dividend 12l. 10s., but then, with coals at only 9s. 4dd. per ton, the gas is 6s. and 5s. It is perfectly clear, that if Manchester can make a large dividend of 10 per cent. with gas furni

5l., and the rest, 6l.

The City of London Company merits especial notice; it pays 15s. 9d.
for coals, or 3d. per ton more than Manchester, and charges 4s., or 9d. less
than Manchester, for gas. Manchester has 274,427l paid-up capital, and
the City of London 300,000l. The rate per cent. of dividend is very nearly
the same. In 1847, the charge for gas was 7s., and the price of coals
17s. 4d. for the City Company; in Manchester the gas was 5s. 6d., and the
coals 15s.; in 1848, gas 6s., and coals 17s., in the City, and in Manchester,
4s. 9d. gas, 15s. 6d. coals; in 1849, 5s. from Midsummer, but reduced to
4s. for gas in the City; coals, 15s. 9d.; the prices in Manchester remaining the same.

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The other London companies appear to have computed the charge for gas from the ratio existing between the price of gas and coals in some place or other where the latter are dear, and where, consequently, it is but reasonable that the gas should be proportionably high. Thus, at Oxford, the coals cost 22s. 4d., and the gas 8s. 4d: 10 of our companies pay on the average 15s. 5d. per ton of coals, from which the gas, on the Oxford proportion, should be 6s. 9d.; it is but 6s.; but when 6s. are compared with either the City of London 4s., or the Manchester 4s. 9d., both paying more for coals, we feel satisfied that the charges of all the companies, except the City of London, are most exorbitant.

Gas in large towns and cities has become a necessary of life, and people

may be excused for feeling as much indignation at overcharge for the sole benefit of trading speculators, as at the late tax on bread for the exclusive advantage of a few great landlords. With respect to the latter, however, the people could not help themselves, but there was nothing to have prevented them from taking the supply of gas entirely into their own hands. Notwithstanding a few losses by jobbing, they might long ago have relieved themselves from many of the heaviest parochial burdens. If each parish had displayed the same good sense that actuated the people of Manchester, and had disregarded the taunt, prompted by self-interest, that they were becoming dealers in coals and gas, they would at this moment have had purer lights at less cost, and at the same time have had less to contribute expressly towards poor and police. The system of self-supply of gas, besides relieving the people of Manchester from rates, enabled them, several years ago, to erect a large and magnificent town-hall of stone brought from a distance. The date of their first Act for lighting gas is 1824, and the building was commenced between that year and 1830, when the second Act was passed. From this circumstance, and all that we can learn from the return, large profits are obtained when coals are about 184, and gas about 48. We, therefore, recommend the institution of such an agitation as will cause the London companies to be more reasonable.

THE COAL TRADE-" NO MONOPOLY."

The owners of the collieries in Durham and Northumberland have lately tered into a combination to reduce their production, with the view of obtaining for the future what they consider a remunerating price for their coals. It is, in fact, a revival of the old system of the vend, which prevailed for so long a time, and which was only relinquished a few years ago because it had notoriously failed in realizing the objects contemplated by its originators. It had the effect of checking the demand in a very great degree, but it did not rescue from embarrassment those who had been unfortunate in coal speculations, or who possessed pits unfavourably situated. The mode in which this system, was worked was simply this:—the productive power of the various collieries having been estimated and registered, the quantity of coal required for the London market was settled monthly, and was then apportioned among the collieries according to the amounts at which they were respectively registered. In the present instance, the coalowners have determined upon the quantity to be raised during the year for household use, and have divided it among the first-class collieries. They have also decided what per centage of coal is to be taken to market in the different months of the year; and, for the moment, the aim of the association has been so far attained that the price of the article has risen 2s, per chaldron. To the inhabitants of London, who draw their principal supplies of fuel from the northern collieries, this is a very serious consideration; for they will unquestionably have to pay a higher price for Newcastle coal than they have done of late, though it is by no means clear that the arrangement will be to the immediate or ultimate profit of the coalowners. The rules devised by the association are constructed upon a principle which is false in theory, and which has already been condemned by experience. its originators. It had the effect of checking the demand in a very great periones.
illst an unrestricted competition existed between the different collieries.

principle which is false in theory, and which has already been condemned by experience.

Whilst an unrestricted competition existed between the different collieries, those which could produce at the cheapest rate had naturally the largest and most lucrative share of the trade. Those, on the other hand, which possessed few natural advantages, or which were conducted with small capitals, were all more or less unprofitable concerns. But the consumer had the advantage of being supplied with the coal which could be most economically raised and brought to market. The tendency of a continued competition would have been to cause the less productive mines to be gradually abandoned, and to attract more capital and labour to the richest and most accessible veins. Such a result would have been a general advantage to every interest whose prosperity depends upon a cheap and abundant supply of coal. But acting under a mistaken view of local interests, the coalowners of the north have determined to try an experiment which must entail loss upon themselves, and which must compel the consumer to look to other sources for his supplies. It is obvious that, wherever a given quantity of coal can be produced at a remunerating price, the restriction of production below that limit must be a certain and immediate loss. Now works have been formed and machines erected to produce the larger amount, and as the outlay cannot be diminished, the cost of production must, therefore, be increased by the new regulations; and such is the actual position of the most profitable mines. But with regard to those for the benefit of which these regulations have been made the case is far worse. Their proprietors have been induced, by the small margin of profit anticipated from the operation of the vend, to sink deeper shafts, and to erect more powerful engines, so as to enable them to furnish their prescribed quota. Here, therefore, the art of production will be carried to its highest possible limits, until finally many of the miner will be abandoned, as wa

mining speculations. The opening of a new mine is very expensive, and the result of the operations very uncertain, while the depth of many of the old ones makes the machinery for draining off the water and for raising the minerals exceedingly costly. The carriage, too, to the seaside adds a very considerable item to the charges; so that, except with good fortune equal to that of the individual who draws a prize in a lottery, the coalowner does not often make very large profits. It is not, therefore, difficult to imagine, in spite of the active home demand and the increased importance of the foreign trade, that many of the coal mines may be working with scarcely any profit, except to the labourer and the landlord. As long as a seam is worked, the former must receive his wages and the latter his royalties, but the returns upon the capital invested in the works must depend entirely upon the facilities of production. Any attempt to determine profits and to regulate prices by agreement must inevitably fail; for price must be governed by the demand, and by the cost of producing the article required. It is a strange thing to see the masters acting upon precisely the same false principles as are asserted by the pitmen in a strike. It is superfluous for the Duke of Cleveland to make a pilgrimage to the north to preach the fallacies of protection. The coalowners have the start of him, as they have also the advantage in point of candour; for they avow that their object is purely a financial one, and they do not feel it incumbent upon them to talk nonsense about native industry. But it is remarkable that the proverbial intelligence of the north country should have failed in such a very simple question. It is quite unintelligible why the coalminers, who have been doing well, should consent to forego a part of their trade, unless they suppose that, by the measures which they have adopted, their gains will not be lessened whilst their mines will be less rapidly exhausted—a confidence in the efficacy of commercial restriction their gains will not be lessened whilst their mines will be less rapidly exhausted—a confidence in the efficacy of commercial restriction which we believed had been confined to the school of political economists of which Mr. G. F. Young is the leader. But it is not surprising that the less successful masters of collieries should have been anxious to try a system, however artificial, which promises them a short reprieve. They, indeed, may profit for a time by the new regulations, as the effect of the combination will be to encourage producers who cannot produce well or cheaply; but the really productive collieries must be prepared to make a considerable sacrifice of their present profits, and the consumers of their produce, to pay a much higher price for their coals.

In these days, however, the London market need not depend exclusively on Newcastle and Sanderland; for the extension of the railway system has brought within reach of the metropolis the resources of the inland coalfields, and the rise in price established in the north will but serve to quicken the rising competition, and to increase its extent. Every additional penny on the price of coals in London will make a larger area of the coal-producing parts of England available for the supply of the metropolis. With railroads penetrating into the heart of the richest mineral districts, and with an active competition among them for the traffic, it is far from unlikely that a great portion of the fuel required in London may be supplied heveafter from the midland counties. The re-establishment of the monopoly in the

north-for it can be called by no other name-will tenelse to alter the direction of the London coal trade. north—for it can be called by no other name—will tend more than anything else to alter the direction of the London coal trade. Every year the difference of expense between land and water carriage diminishes, and the advantage, in point of economy of time, is infinitely in favour of the former. The step, therefore, which has been taken by the coalowners will be most injurious to themselves; and the mischief which it will do to the consumer will probably last only long enough to produce a lasting remedy. In the meantime, the trade of Newcastle will be a good deal interfered with, and the local shipping interest will have reason to regret the folly and ignorance of the gentlemen who have re-organised the vend. We are willing to hope that a short experience of its effects will be sufficient to induce its present advocates to retrace their steps. We should be sorry to think that the subterranean occupations of the coalowners have impaired their usually acute intellectual vision.

advocates to retrace their steps. We should be sorry to think that the subterranean occupations of the coalowners have impaired their usually acute intellectual vision.

In spite of the example set by the Duke of Cleveland, we cannot believe that the counties of Northumberland and Durham will become a school of monopolists, or that a system will long be persevered in, which must prove as unprofitable in practice as it is false in principle.—Morning Chronicle.

Original Correspondence.

THE FURNACE PARADOX.

SIR,-I might very justly demur to Professor Hann's mode of convicting me of contradiction in his letter of the 12th inst., because nothing is more easy than to give passages a wrong meaning, by abstracting them from the context, and it is evident the full meaning of the last passage he quotes is destroyed by isolating it. I will not, however, avail myself of this strict objection, but take the passages as he contrasts them, evidently anticipating that they are the horns of a formidable dilemma. Surely Prof. Hann must be aware how great a difference there is between asserting that a power is constant, and asserting that its effects are constant. For instance, a steam-vessel will make a very different rate of sailing, according to the state of tides, winds, currents, &c.; yet nothing could be more incorrect than to allege therefrom that the steam-power was not constant, and instead of explaining the retardation by its natural causes, to assert there was a paradox in the steam-power, by which it diminished itself. The power of the furnace is one thing; furnace ventilation, which is the effect of that power, is another thing quite distinct, and the opposed passages involve no contradiction when I admit inconsistency in furnace ventilation, and yet assert the constancy of the power which produces it. My remarks were solely and entirely addressed to that form of the paradox in which it is asserted that the furnace has the variable power of glutting itself with cold air, and diminishing its own action. This is the inconstancy which I dispute, and not an inconstancy produced in this and every other ventilation by extrancous causes. I willingly acquit Prof. Hann of any intention of misconstruing me, but I cannot acquit him of a want of precision, not to be expected in a professor of the exact sciences; and my annoyance arose from his letter, assailing me upon every topic except that one upon which I had written. I should have been pleased had he advanced an opinion upon the particular feature of paradox which I referred to; but he still makes no allusion to it, and recurs again to the natural brattice, whence I must conclude that the other has been dismissed as untenable. I do not much approve the attributing natural phenomena to "paradoxes" and "magical quantities," because we are certain there is no effect without its natural cause, however subtle it may be to investigation; and to rest content that it is under a spell, hinders the mind from the much more profitable task of ascertaining that cause. The remarks with which the must be aware how great a difference there is between asserting that

processor lavorited the week, in lace, an elaborecare, which are proposed to formed a small nucleus of quite a different substance. But, perhaps, where paradoxes are the theme, it is most in character to treat upon them swer upon another.

The natural brattice, which I assume, upon the testimony of Mr. Gurney, is actually produced in upcast shafts, he attributes, undoubtedly with truth, to the existence of such an amount of obstruction in the passages of the mine, that instead of the whole accending current being derived, as it is intended to be, from the interior, a portion descends from the surface by the more easy direct course down those least buoyant regions of the upcast, which are not vertical over the furnace, and ascending again up the heated centre, establishing a nugatory circulation instead of a current through the mine. Now, it is quite obvious that no way can be taken to establish this action more effectually than by having an upcast of great diameter. Were the formation of this natural brattice the inevitable and inseparable consequence of furnace power, it might then be quite proper, and indeed imperative, to seek out, as Prof. Hann proposes, some new method of ventilation. But, on the contrary, nothing can be more easily and certainly prevented than the formation of this mischievous current. All that is required is the due proportional arrangement of the two elements of furnace ventilation, and which are directly opposite in their action. The first is the descent of the intake, and its consequent passage through the gallaries of the mine by the force of gravitation. The second is the ascent, of the current to the surface against that force. If the obstruction of the air-courses presents a resistance greater than the weight of the descending air of the downess, or if the capacity of the upcast is greater than is required for the due ascent of the heated current against the superincumbent atmosphere, facilitating, by a large area, its pressure and descend, then the vice of the pressure from behin

mosphere, which is about 1300 it, per second. Exceeding this the steam will outstrip the air, and produce no commensurate effect.

The second cause tending to promote the formation of the natural brattice is still more easily corrected than the first. If the upcast is too large, so that the ascending column of buoyant air does not fill its whole extent with due velocity and momentum, thereby permitting the superincumbent atmosphere to find its way against the sluggish stream down the sides of the shaft, nothing is required but the contraction of the mouth of the upcast. If this is done sufficiently to maintain the exit of the heated current at the velocity due to its levity, the formation of a natural brattice is impossible. It will increase, not diminish the discharge. Unless applied with such arrangements, the full power that can be gained by the furnace is not known. There must be something very wrong in the construction of any upcast which will permit one particle of atmospheric air to descend it against a buoyant column, several hundred feet in depth, and heated even to the low average of 150°. What natural reason can be given for the alleged paradox that no higher temperature than this can be maintained in an upcast? Cannot the heat of a pudding-furnace chimney be raised above 150°? What is, then, to bar a high temperature in a chimney of 300 yards, when it can be obtained in one of 300 inches?—Nothing but defective proportions for the access and the exit of the air. A uniform momentum of the whole current is the great element of these; there is uo physical law for establishing momentum, except the compensation of deficient weight by velocity. The rope of air to which Mr. Gurney appropriately likens the current through the galleries, cannot be

dragged through by a thread of inferior strongth, especially as it must push as well as pull. It is not the mere existence of vacuum, or rarefusion, in the upcast shaft that preserve the mere existence of vacuum, or rarefusion, in the upcast shaft that preserve the mere existence of vacuum, or rarefusion, in the upcast that the preserve that it is that hinders the atmosphere from rushing into that vacuum the shortest way?—Motion alone. And if that movement has not velocity given to it to compensate the loss of weight, it must be overpowered. Paradoxical as it may be termed, could a perfect vacuum be maintained in the upcast, the course of ventilation must cease, because there would exist no matter to check the descent of the atmosphere by the nearest channel, and the upcast would be filled from the surface. It is this law which has been found to oppose a limit to the power of the furnance. If the upcast be heated or rarefied to that point, that the momentum of the intake, increase of heat produces no increase of current. As the ordinary capacities of upcasts happen to be about that average, which is proportioned to give a due velocity at a temperature something exceeding 100%, so also the ordinary amount of air passing per square foot is found by Mr. Gurney to range near a certain average; but it appears in the data he advances to support this, there is a very considerable oversight on his part. He quotes Haswell upcast at 109 ft. area. Now, in Mr. Elliot's evidence, the downeast is given at 110 ft, the upcast at 58 ft, which is also confirmed by Mr. Phillips (page 24); and the actual quantity of air passed by this upcast shaft is 94-900 cubic feet per minute (see Lord's Report, page 294), or very nearly double the amount? of the average of 1000 ft. per foot per minute, which such the provided by the produced by the produced by the produced by a brick lining, and its efficiency in consequence, proving irrefugably my theory of the tiffer of, and the year and a second upcast at the position where it is most neede

RED-SHORT IRON SIR,-I did not see your Journal for three weeks, or I should have offered a remark or two at the time of the discussion on this intricate subject. The fact which seems by itself to be best established, is that rich ores tend to produce red-short iron; and as such iron is extremely tough and perfect when cold, it seems almost a just inference that the red-short is a quality of the purity rather than of the alloy of iron. So also rich ores which are mineralised predominantly with silex, yield red-short iron, as well as those which are mineralised with lime; this, again, is opposed to the presumed notion that red short arises in an alloy of calcium. One ground on which this alloy has been assumed, is the fact that the application of lime cures cold-short and imparts fibre. But assuming phosphorous silex, or any other impurity, to be the cause of cold short, lime may remove these impurities, without it at all following as a necessary inference that the effect is produced by a further alloy of itself; indeed, this latter inference is not so philosophical as the former. So also that degree of cold-short which the presence of a small proportion of carbon produces, may have its removal attributed to the decarbonising effects of lime, without any necessity of supposing an alloy of calcium. For my own part, I cannot but look with great mistrust on any theories which assume the existence of alloys of the metalline bases of the earths during the exposed processes of the manufacture of iron. I am aware that Mr. Mitchell and other chemists have recognised such alloys, in spite of the great difficulty of conceiving these highly oxidisable substances to be preserved in the metallic state in the blast and other furnaces. They are better judges than I am of the certainty of the tests which are to discriminate between the presence of these matters as metals, or as mere mixtures in their ordinary state of certifies, but at the least its seems a question of the most expression of the most expressio and perfect when cold, it seems almost a just inference that the red-short than I am of the certainty of the tests which are to discriminate between the presence of these matters as metals, or as mere mixtures in their ordinary state of earths; but, at the least, it seems a question of the most extreme nicety. Until such alloys are indisputably produced by synthesis, and not merely detected by analysis, a very great element of proof is wanting. I do not deny their existence as a possibility, but would rather see their effects demonstrated than assumed. The immediate cause of red-short, whatever may be the prior or superinducing cause, seems to be in a certain arrangement of the particles of the metal when passing into the rigid state,—the shrinkage at that time producing such a rapid strain upon the particles, that their power of cohesion will not bear the further trial of bending or concussion. The question is still more complicated by the fact, that the point of weakness is acveloped at different stages of cooling, from a bright red down to the darkest shade of that colour. A series of observations and measurements of the rapidity of shrinkage of various of observations and measurements of the rapidity of shrinkage of various bars of iron, at successive temperatures, might throw light upon the question. It is not difficult to conceive that iron, which is arranging itself in longitudinal bundles, should be mere disposed to lose the coherence of those threads when strained during shrinkage—beginning of course at those which are most tried at the exterior arch of the bend, than iron which is which are most tried at the exterior arch of the bend, than iron which is a raranging itself in a more open and crystalline texture, where an expansive action is opposed to shrinkage. It is a fact which bears considerably on this view, that pig-iron which produces a fine quality of tough bars iron, accompanied with red-short, is found, when used alone in the foundry, to yield castings with a great tendency to draw or warp when cooling. The fact, also, which has been thoroughly established by the Government inquiry into the subject, that the best and strongest castings are made by mixtures of pig-iron, is accounted for by the arrangement of particles which the mixture induces, and not by the supposition of a combination of alloys of extraneous components involved in the different samples of metals. If bar-iron is very pure, we may even conecive the possibility of a greater susceptibility of oxidation tending to promote the rupture, and which would be more probable, if it is a correct view which has been taken by some, that the red-shortness of iron, from very rich ores, is partly caused by the presence of minute unreduced particles of oxide; whilst, on the other hand, the carbon or silex which have been detected in cold-short iron may act as a protective from oxidation, precisely as they are so used

during the operation of welding. It is very probable, as Mr. Mitchell suggests, that sulphur may have an effect in promoting red-short, but as lime also produces red-short, and is in itself the greatest corrective and purifier from sulphur, we are here landed again in an apparent contradiction. I do not think it can be asserted as any general rule, that hot-blast favours red-shortness; it can much more safely be asserted that it rather increases whatever natural tendency the ores possess, whether it be to red or cold-short. Certain facts could only be arrived at by extensive experiments in smelting ores simply without admixture, much more than is now generally practised. I know ores that produce tough iron with the usual red-short taint when smelted with charcoal; this red-short rather increases when pit coal is used with cold-blast, and there is, perhaps, some little further addition of red-short with hot air, but there is a different command of materials obtained by the three processes, which may, perhaps, quite as fully as an increase of sulphur, be brought to account for the change; and, indeed, some other reason is called for, because the minute proportion of sulphur which Mr. Mitchell adduces as having produced red-short, must in general be very far exceeded in all iron that is manufactured with pit coal.

In considering this subject, it has struck me that what my father considered a paradoxical effect of lime in promoting the decarbonisation of bar-iron, and yet promoting the carbonisation of pig-iron, may find an explanation in the views which have been taken by accurate chemists as to the proportions of carbon in pig-iron. If white iron contains most carbon, and the phenomena of motiled and grey iron arise in the gradual disengagement of portions of that maximum in the form of graphite, it will then appear that the lime in excess, which is so absolutely essential to the production of these shades of metal, really acts as a decarboniser equally in pig-iron as in bar-iron. The more lime is present either

CALIFORNIA.

CALIFORNIA.

Sin,—I perceive, by late California papers, that gold digging is being carried on in a more systematic manner than hitherto. The miners are making deeper excavations, and paying more attention to the striated quartz—the richest matrix of gold; and I should suppose that, ere now, the folly of breaking up companies through individual avarice, so prevalent in 1849, has been demonstrated by sad experience.

Under those circumstances, it is to be expected that, henceforth, the results of gold digging will be much more uniform, certain, and remunerative—the majority of cases of failure having been owing to the fact that the necessities of individuals obliged them to quit the mines in search of other means of living, unless they met with almost immediate success.

A company, in possession of three or four mules, being enabled to have always a stock of provisions at a cheap rate, can afford to bear a run of ill-luck for a week or so, and work steadily on, with the certainty of averaging, good and bad digging together, a very large return; but the solitary individual digger, after a short run of bad-luck, is penniless, and has not means of buying biscuit; he is, therefore, afraid to persevere, which he can only do by getting credit at the provision tent; and throwing up gold digging as a bad job, gives it a bad name. But a company of steady men, working regularly, and without any extraordinary exertion, not disheartened by a bad day's work, and anadvisedly and hurriedly abandoning the digging, but pursuing it as a business, must, in a very short period, meet with immense success.

EDWARD CULLEN, M.D.

COMPRESSED ARE ENGINES FOR MINES

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Sir,—I have observed in your Journal of this week that a discussion has taken place at the Polytechnic Society in Cornwall on the merits of compressed air for transmitting power to considerable distances underground. Having recently made some experiments on this subject, I am led fully to concur in the opinion expressed by Mr. Taylor, that, owing to the great leakage of this subtle medium, with other practical difficulties, the free adoption of this system cannot be recommended. In the course of working an extensive colliery, with which I am connected, faults were met with which altered the dip of the coal, throwing a portion of the seam under level; and there being no means of draining the water from it except by pumping, a small high-pressure engine was set up for that purpose underground, at a distance of 600 yards from the drawing shaft, with the intention of working it by compressed-air, prepared by steampower at the surface. A small air-pump was then fixed for generating the required supply of air, and connected with the engine underground, by wrought iron pipes, 1½-in. diameter; but it was found, after repeated trials, that although the small engine could be got to work, yet the waste of power was so enormous, that the plan had to be abandoned. A high-pressure boiler has since been placed at the bottom of the upcast shaft; and this is connected, with the engine, 600 yards distant, by the pipea used in the former experiment—these being wrapped with hay-bands, thinly coated with Roman cement; and the result is most satisfactory—the engine working freely, and quite up to the duty expected. The escape pipe at the engine is carried into the return air-course in the direction of the current; and the steam ejected materially assists the ventilation of the mine, which is here a good deal infested with inflammable gas—no doubt mainly owing to its propinquity to the faults before alluded to.

FOURDRINIER'S PATENT SAFETY APPARATUS.

Sir.—The owners of mines are truly indebted to the excellent apparatus of Mr. Fourdrinier in saving, not only the lives of the workmen, but the property of such owners as have adopted it. The case of Belmont will fully illustrate this position, wherein it is shown that even one-half of the apparatus was sufficient to hold the cage, and thus prevent the damage which must have ensued, had there been no such apparatus on the cage. I am inclined to think that the owners do not rightly view the two-fold nature of the question—viz.: the certainty of saving life, and also the equal certainty of preventing extensive destruction of property when the ropes, or chains, do break.

certainty of preventing extensive destruction of property when the ropes, or chains, do break.

A few months ago the rope at the Walker Colliery, near Newcastle, broke, and down went the cage, tubs, coals, &c., carrying destruction with them, breaking the guides, tubs, and cage, which the master said it would take 50. to repair. I was at that colliery again a short time ago, and I was surprised to see the ropes in a very unsafe state, being split nearly the whole length, and wrapped and re-sewed (they are wire-ropes); and stilt they were so unfit that the master, who is a very careful man, would not allow the pit to work any longer with them till they were repaired. Thus, independent of the damage, should they have broken, here was a cost, perhaps, nearly as heavy as the putting on the cages the apparatus alluded to, besides the loss of work necessitated by the delay in repairing the same. At the Killingworth Colliery, a short time ago, the rope broke whilst drawing coals, and a vast deal of damage ensued; but, what may be considered very fortunate, a large number of workmen were standing ready to go down the pit on this same rope, had it come up unbroken that time. It makes the blood curdle to think of such things, and some of the men declared they became quite unnerved when they saw what a narrow escape they had had. I trust that the subject will be kept before public notice till such apparatuses are as general as the collieries.

P. R.

Newcaste-on-Tyne, Oct. 9.

PYROGEN.

SIR,—Will you allow me through the medium of your interesting Journal to ask Mr. Lake what is the difference between his theory of the solar system governed by pyrogen, and Mr. Hopkins's theory of the Universe, as described in his work on Terrestrial Magnetism. If I understand Mr. Lake's papers correctly, they appear identical; and, if so, what then is the difference between pyrogen and electro-magnetism?

London, Oct. 10.

ALBERT DUMARESQ. ALBERT DUMARESQ.

NEW RAILWAY GUARD SIGNAL

Sir.—The great desideratum in any signal, to enable guards to communicate with enginemen when a railway train is in motion, is that it should be free from wires, or cords, of any kind, and only brought into use when the actual necessity arises. This object I accomplish in the following manner:—I have a tube, with a trumpet-shaped or bell end; at the opposite end I place the metallic tone-pieces of an accordion, or Æolian, when the train is in motion, and the bell end of the tube is turned towards

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SUAMABINE TELEGRAPH-ENGLAND AND FRANCE.

SURMABINE TELEGRAPH—ENGLAND AND FRANCE.

Sir,—In 'he account given in your Journal of the meeting of the shareholders of the Submarine Telegraph Company at Paris, your reporter
states that that the chair was taken by Sir James Carmichael. Allow me
to correct this mistake, as, although warmly interested in the success of
this important undertaking. I was unable to reach Paris in time for the
said meeting, which was presided over by Mr. E. Aimé, a highly respectable
and influential member of the French Stock Exchange. I should not notice
this otherwise trivial error, were it not that I consider that every possible
credit should be attached to Mr. Aimé's name, from his having been one
of the earliest advocates and supporters in France of this great international
telegraph, at a time when its success was not only a matter of conjecture,
but was deemed by many scientific men to be an absolute impossibility.

Hôtel Meurice, Paris, Oct. 8.

J. R. Carmichael.

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Hôtel Meurice, Paris, Oct. 8.

On the Change which takes place in Copper Pyrites, under the Action of a Galvanic Curneal Society, on this subject, in which he observed that a few years since some experiments were made by two members of the society on the yellow force-sulphure of copper, by which a change was observed to take place on submitting it as a negative plate to the action of a galvanic current, and some statements were verally made on the subject, but unfortunately the details of the facts form no part of the society's Transactions. He then adverted to Becquerel's experiments, and described the process followed and the results of the experiments of Mr. R. W. Fox. Mr. Fox asys, "in a short time the yellow ore became beautifully irridescent, resembling peaceds ore; it afterwards semet to pass into purple, and ultimately into grey, not merely superficial, but penetrating to some depth, with a deposition of octohedral crystals of copper; the ore having considerably decreased in weight, as much he thought as 8 or 10 per cent." He noticed also the trials to decompose the pyrites made by Mr. Fox's plan, and afterwards a process which he thought might lead to more accursic results with regard to the decrease in the weight of the negative body. He then detailed the different processes he had used, the paper concluding as follows:—"In order still further to test the fact of the decrease, the process was adopted of using an indicator of the amount of copper precipitated, and Mr. Mason's arrangement of the decomposing trough, still keeping the deflection of the needle constant at 20°, by means of a regulating jar; this change of arrangement not making the slightest difference theoretically in the process of decomposition, the pyrites being subject to the same force and current, but produced in another manner, a copper positive pole taking the place of the positive zinc.

New Process of Tenning.—Mr. A. G. Roseleur, chemist, of South-street, Finabury, has just patented some improvements in coating or covering metals with tin, the first of which is applicable to tinning small articles, such as tacks, hooks-and-eyes, &c., on which a deposit of an is precipitated by dipping them in a bath composed of water 22 lbs., ammoniacal alum 17½ ozs., and protochloride of tin, or other soluble salt of the same base, I oz., heated to about the boiling point. The alum employed will last for a considerable time, and when the bath is weakened by precipitation of the tin therein contained, the addition of a small quantity of the above salts, or other salts of tin, will restore its action. Cast-iron, and other metals in the rough, on immersion in this bath will be scoured and cleansed, and thereby prepared for either of the following processes:

—The second improvement consists of a new mode of coating with tin the surfaces of cast-iron and other metals and alloys. The metals to be operated on are to be first cleaned or scoured with azotic, hydrochloric, or other suitable acid, to remove the oxide, and then immersed in a bath composed by digesting in 17½ pints of soft water, 10½ ozs. of bitartrate of potash or soda (tataric acid, or acidulated tartrite of potash, or soda cream of tartar), and then adding an aqueous solution of three-quanters of an onuce of protochloride, or other soluble salt of tin. The metal to be coated is immersed in this solution, and the tin precipitated by the addition of zinc in small pieces. By this method a covering is formed of equal thickness in every part, so that, unlike the operation by immersion in molten tin, in this case the original roughness or inequalities of the metal operated on are not affected; and this gircumstance is stated to give additional value to the process, and to render it applicable to a variety of purposes in the arts for which the old process is distained to the coated is immersed, consists of 17½ ounces of water, deprived of its alkaline salts, NEW PROCESS OF TINNING .- Mr. A. G. Roseleur, chemist, of South

decomposition of a suitable solution of tin, for the purpose or coating metals and alloys of metal, as before described.

EXPERIMENT ON IRON SHIPS OF WAR.—On Tuesday last some practice took place from the Excellent, in Portsmouth Harbour, to test the effect of shot on iron steam-vessels of war. In this instance, the target, representing a section of the Simoom, iron steam-frigate, was lined with kamptulicon, a composition about 1 ft. in thickness, of which prepared cork and India-rubber are the chief ingredients. It is the invention of Lieut. George Walter, R.M. The object of the experiment was to ascertain the effect of the composition in preventing iron splinters flying off when struck by shot, and the fracturing of the shot itself, in both which particulars iron vessels with linings of wood had, in previous experiments, been proved to be entirely unsuited for war; the splinters from the sides of the vessel, together with the fractured shot, it being seen, would be attended with most destructive effects on a crow. An experiment with kamptulicon had taken place about a fortnight since, but the small quantity of the preparation used on that occassion prevented any accurate idea being drawn. On Tuesday a larger surface was presented for the experiment, the but being placed at a distance of 450 yards from the Excellent; 32-pounder guns were used, with a charge of 10 lbs; and, out of eight shots, four took affect for the purposes of the experiment. The results were considered to be favourable, to a certain extent, as to a diminution in the quantity of splinters flying off, the adhesive and elastic composition retaining them, and preventing them being scattered about. The fracturing of the shot did not, however, appear to be much affected; and, although there could be no doubt that the ability of the shot to produce a shower of destructive splinters was considerably reduced, it was not thought that the composition had not all the necessities of the case. It has, however, many peculiar and very valuable properties,

THE MINERALOGY OF GREAT BRITAIN-THE EXHIBI-TION OF 1851-PROFESSOR TENNANT'S LECTURES.

The Executive Committee of the Commissioners for the Great Exhibition in Hyde-park have just issued a circular, in which, considering it highly desirable that such a collection of British minerals should be exhibited as would give a just idea to the foreigners, who may be expected next year to visit the metropolis, of the mineral wealth of this country, they invite the proprietors of mines, quarries, &c., to assist in carrying out the views of the commissioners with reference to so important a part of the proposed Exhibition.

With respect to the best made of consider and article. The Executive Committee of the Commissioners for the Great Exhibiti

with reference to so important a part of the proposed Exhibition.

With respect to the best mode of preparing and exhibiting the specimens, the executive have made the following suggestions:—"It is desirable that the specimens forwarded should be generally of such a size as will best exhibit their usefulness for the purpose they are intended to subserve. In the case of building stones, marbles, alabaster, &c., cubes of six inches a side are, perhaps, most convenient; and in such case it would be desirable that one side should be left rough and one finished, the other exhibiting such processes as may be gone through in completing the material for use. Where slabs and large specimens are forwarded, they should also, as far as possible, exhibit more than one process, and always show one surface in an unpolished state. Gems should (as far as may be) appear in duplicate, one showing the rough stone, and the other the polished and finished ornament. It should be borne in mind by exhibitors that objects of utility rather than curiosity should be selected. In the case of ores and minerals, of which large quantities exist, the ordinary appearance of the mineral is that of chief interest and value. It is highly desirable also that some statistical information respecting the subject exhibited should is all cases be forwarded. Each specimen should be marked in such a manner that it can readily be identified. The name of the locality, parish, township, and county, should be given, and the extent of the work stated, while some account of the quantity of such substance that has been supplied within a given time would be of great value, and would serve as a permanent record of the state of the works at the period of the Exhibition."

The following is a classified list of the articles more particularly required :-

EARTHY MINERALS.

Rock crystal, clear, and as required for optical purposes.
Flints, as used in the manufacture of glass, gun-flints, used in building (squarred or tressed), used in roads.
Sands—Sand for glass, foundry sands.
Girludstones of various kinds; whetstones and hones; touchstone (as used by jewellers); milistones; filter stones.
Tripoli (polishing metals, &c.)
Tourmaline (used for optical purposes).
Zircon and other jewels used by watchmakers, &c.
Sulphur.

Sulphur. Amber. Asbestus, raw and manufactured into dress. Steatite (French chalk).

Nitre. Rock salt. Alum.

Alum. Borax. Carbonate of barytes; sulphate of barytes.

Strontante. Felspar, in all states of decomposition. China clay (Kaolin), pottery clay, brick clay, Stourbridge and other fire clays, pipe clay

Corundum emery. Limestones, Iceland spar used for optical purposes. Marbles of various kinds.

Marbles or very
Finor-spar.
Alabaster.
Lithographic stone; cement stones.
Calcarcous, and used as manure.
Calcarcous, and used as manure.
Phosphate of lime, nodules, and lumps used as manure.
Granices, porphyres, and other hard porphyritic rock, used chiefly in a polished state, and for purposes more or less ornamental.
Sandatones, used for purposes of construction.
Conglomerates of finits and other alliceous rocks.

***Construction**

***Construction**

***Construction**

***Accesses of limestone.

** Breccias of limestone.

Limestones used for construction.

Basalts, used chiefy for road stuff and paving.

Flags of various kinds.

Mineral Carbon—anthracite, Cannel coal, jet, caking coal (chief varieties), steam coal, lovey coal. lignites, bitumen, naphtha, asphalt, petroleum.

Ores and Motalliferous Minerals.—It is desirable one specimen at least of each metal its parest state should be forwarded for exhibition.

Ores of Iron.

Iron pyrites used for sulphur, &c.

Magnetic oxides of various kinds.

Iron sands, Hastings, &c., formerly used in weald.

Red hæmatities; brown hæmatites.

Spathle iron.

Clay ironstones, various kinds.

Clay ironstones, various kinds. Chromate of iron. Ores of cobalt found in England.

Ores of cobalt found in England.
Copper nickel.
Ores of zinc—blende, calamine, electro-calamine.
Ores of cadmium—Grauwackite.
Ores of antimony—sulphurets.
Ores of ansoinc—realige, oppiment.
Ores of morcury.
Ores of lead—galena, white lead ore.
Ore of tin.
Blamuth.

Ore of Uranium—pitch blende.

Tungsten.
Moj bidenum.
Copper — native, sulphurets, oxides, carbonates.
Silver — Native, sulphurets, oxide.
Gold, Germs, and Ornamental Stones. — N.B. Useful varieties of form should, if p
tecompany each specimen of polished germs. It will be observed that foreign ge
to tincluded in this list — Calrin gorn, cat's eye, agates, onyx, mocha stones,
dony, cornelian, bloodstones, jasper, opals, garnets, topaz, olivine, spinelle, &c.

sioners, in reference to British minerals, will give additional interest to the lectures of Prof. Tennant on mineralogy, this session, at King's College. The learned professor commenced his course on Wednesday, when there was more than an average attendance of students. The following is a sketch of his introductory lecture :-

Prof. Tennant said that the productions of our globe naturally distributed themselves into three grand kingdoms—animal, vegetable, and mineral. The two first included all beings possessed of vitality—beings which increased by nutritive substances, taken internally, which arrived at maturity by a series of uccessive developments, whose parts were mutually dependent, and could not be separated without destroying the perfection of the individual, and which be separated without destroying the perfection of the individual, and which, after a certain period, lost the capability of continuing the usual functions of life, and, consequently, died. The mineral kingdom, on the other hand, contained those natural objects that were not possessed of life—objects which increased by accretion merely of an external addition of particles, unaltered by any powers of assimilation in the object, which were equally perfect at the earliest commencement of their formation, and in the enlarged individual—whose individuality was not destroyed by a separation of parts—whose formation was the result of chemical attraction, and, consequently, not necessarily, from their nature, liable to death.

The learned lecture exemplified this description of the formation of minerals, by exhibiting certain substances exposed to the action of different chemical solutions; as the watery portion of the structure evaporated, the particles suspended in it were deposited, and the aggregation formed an apparently new substance, and these substances assumed different forms, according to their nature. For instance, the crystals of alum were an octahedron, and of nitre a

mical solutions; as the watery portion of the structure evaporated, the particles suspended in it were deposited, and the aggregation formed an apparently new substance, and these substances assumed different forms, according to their nature. For instance, the crystals of alum were an octahedron, and of nitre a prism. If, for instance, the sulphates of copper and of iron were boiled in the same solution, both would produce crystals dissimilar to the results of the alum and nitre. These very operations, with all their differences and dissimilarities, might be observed going on incessantly in Nature. If they went to Palermo, they would find there a deposition of sulphur in minute particles, or crystals of a peculiar shape, associated with sulphate of strontia, upon the surface of the rocks. If they went into Cornwall, they would find there, in the vast fasures which had been rent asunder ages ago by volcanic action, a deposition of fluor-spar, on that quartz, and on that copper barytes, each taking its own definite form, and whether tested by analysis, by cleavage, or by hardness, the same result would be found throughout the whole mass.

It was a peculiarity of minerals, that when broken into the amallest fragments each would take the same character. It was not so in the vegetable and animal kingdom, and this was, therefore, one of the great distinctions which marked out the general division to which the productions of the globe were subject. Comparative anatomists were, however, often disposed to ask, when examining microscopic objects—"What is an animal? How must it be distinguished, as contrasted with a unineral or a vegetable?" He answered in the well-known axiom of Linneus—"Stones grow—vegetables grow and live—animals grow, live, and feel." Minerals, however, only grow so long as there was in the solution in which they were placed an additional quamity of the matter requisite to enable them to do so. Nature lost nothing, nether dil she gain anything. Pursuing this subject for some time, the lecturer inciden

145, Strand, the largest lamp of Californian gold ever yet brought to Engiand. It was a rolled public of quartz rock, through which the gold had been discussed in the control of the cont

a case of minerals, at a house in the city, which, instead of being as its consigners expected of an inestimable value, was not worth the carriage.

He next touched on the mineral treasures of Great Britain. Fifteen years ago he estimated them at 21,000,000*l*. per annum, including only coal (at the pit prices), iron, copper, lead, salt, tin, manganese, sulphur, alum, zinc, antimony, cobalt, bismuth, &c. At the present moment, he believed if he were to estimate their annual value at 30,000,000*l*. he would be under the mark; and, including granite, slate, clay, and other building materials, 50,000,000*l*. would be a low estimate.

including granite, state, clay, and other building materials, 50,000,0002 would be a low estimate.

The lecturer concluded by giving a description of the physical character of minerals, which included their external form, their structure, hardness, or frangibility, their specific gravity, and the nature and shape of their fragments. The builders of old seemed far better acquainted with the physical character and durability of building stones than those of our day. He went the other day to Stoneheuge. The outward range of, those most extraordinary stones were large masses of quartz, and the internal range of hornblende. Stoneheuge, Kit's Castle, in Kent, and other Druidical temples now in existence, which had already probably stood 2000 years, would be standing when Westminster Abbey, King's College, and other modern structures would be in ruins, or replaced, stone by stone, and year by year, as they failed. In referring to hardness, he mentioned that Cronstadt had constructed a table consisting of 20 numbers, by which the relative hardness of minerals could be determined. Modern mineralogists had reduced it to 10 numbers, which were as follows:—

1, tale; 2, gypsum; 3, calcareous spar; 4, fluor; 5, apatite; 6, felspar; 7, quartz; 8, topas; 9, sapphire; 10, diamond.

The next lecture will be upon crystallography.

The next lecture will be upon crystallography.

CRAIG-Y-MWYN LEAD MINING COMPANY,
LLANGHIADR, MONTGOMENYSHIRE.
In 1600 shares, at £6 per share.

The FORMATION of this COMPANY being now completed, and the rules and regulations adopted in conformity with the Cost-book System, limiting the responsibility of shareholders to the amount of their subscription, the following gentlemen were appointed a committee of management:—

The first call to be £10, in two instalments, at one and four months respectively.
It is enough to state that this highly promising and extensive SETT is situate in and

Hee of management:—

RICHARD W. BROUGHTON, Esq., Llanymynech (Chairman).

THOMAS BIBBY, Esq., Llanyllin.

ROBERT BROUGHTON, Esq., Ruyton, near Shrewsbury.

WILLIAN LLOTD ASTERLEY, Esq., Llanymynech.

BELL WILLIAMS, Esq., Liverpool (Secretary).

BELL WILLIAMS, Esq., Liverpool (Secretary).

BENERS—Oswestry Old Bank.

tion for the remaining shares to be made to the Secretary, at his office, No cet, Liverpool, where reports, together with plans and sections of the wo sen.

BLACK CRAIG AND CRAIGTON CONSOLIDATED
MINES—SOUTH-WEST OF SCOTLAND.
Divided into 5000 shares.
CONDUCTED ON THE COST-BOOK SYSTEM.

CONDUCTED ON THE COST-BOOK SISTEM.
COMMITTEE OF MANAGEMENT.
CHARLES BRAGG, Esq., Newcastle-upon-Tyne.
PETER CURGENVEN, Esq., Hertford-road, Kungsland.
CHARLES GILPIN, Esq., Bishopsate-street Without.
WILLIAM MUSCHAMP, Esq., Derwent Lodge, Sunderland.
JAMES VINT, Esq., 71, Bedford-place, Kensington.
SECRETARY—Mr. John Watson.

OFFICES—13, GEORGE-FARD, LOMBARD-STREET.

These extensive Lead Miges are situated about two miles from Newton Stewart, near the head of Wigton Bay, in the county of Kirkendbright, and lie at the foot of a range of mountains nearly at the junction of the clay slate and granite rocks. Black Craig and Craigton Mines are held under lease for 31 years, from the respective proprietors, and at one-nourteenth dues. These setts extend about three miles on the course of the lodes, and two miles from north to south. The principal lode crosses a large hill, and runs in the direction of south of east; it underlays to the south, and is from 18 to 35 feet wide.

3.5 feet which may be deepen a source of each of the stream of the present thinks attractionary lode was discovered about a century ago, while forming the present tilitary road over the hill referred to, where the ore was found in a solid banch of conderable thickness. Several other courses of ore were afferwards proved on the course of the lode, some of them extending to nearly 105 fms. In length, and varying from 3 to feet in thickness. In prosecuting these discoveries, immense quantities of ore were stated, and at a very small cost. The poorer portions of the lode were then left as values, but which can now be worked at a considerable profit by means of the present powerful anchinery for crushing and dressing the ore, and other appliances which were nuknown that time referred to.

Very large profits were then realised from these mines, for many years amounting to have 225,000 per annum, and it is fair to presume, that when the complete and powerful admirery recently erected is in full operation, and the workings extended on the courses of the order of the present of the present of the course of the present of the present of the course of the present of the present of the course of the present of the p

will be realised.

Ore has been recently discovered in the setts, extending considerably east and west of hat portion of the lode already developed, and there can be little doubt will prove equally roductive. Several applications have been made by miners to take bargains on the whole round referred to, and to work on tribute from the surface.

The present available plant consists of about 600 fathoms of adit levels, through which horse iron rallway of at least 500 fathoms for the surface.

There is also about 200 fathoms of engine and other shafts; saveral large reserving, houses, office, anniths and joiners' shops, powder and ore house, dressing floors, lock of mining materials, rallway waggons, tools, implements, &c. The machinery consists of a water-wheel, 30 feet diameter, and 2 feet 5 inches breast, used for driving the rushing mill and dressing machinery. There is also a 40 horse steam-engine, with unping and winding gear; the whole of which has been recently estimated at the vane of £16,000.

umping and winding gear; the whole of which has been recently estimated at the vane of £16,000.

During the twelve months ending May lat, 1830, 395 tons of lead ore were raised and
did at the net produce of £25792. The cost of raising the same, including dressing, dues,
mber, &c., was £2496—leaving a profit of £1266 upon the twelve months' workings;
more the month of May, chief attention has been devoted to the clearing of the enginenaft in the western ground, and it is expected the water will be drained from the bottom
veil in a few days, from which it is calculated that considerable quantities of ore will be
seedily raised.

These minas were the property of gentlemen who sold a portion of their interest at £5

level in a few days, from which it is calculated that considerable quantities of ore will be specify raised.

These mines were the property of gentlement who sold a portion of their interest at £5 per share, having, previous to so doing, undertaken to pay all the coat of working the mines up to the 30th of June hast, together with all expenses connected with the completion of the steam-engine, and the pumping and winding apparatus, being entitled to all ores raised up to that time, and at the expiration of the term specified they delivered up the mines to the shareholders, generally free of all debts and Habilities whateover, the shareholders becoming from that date entitled to all benefits and profits. The original proprietors are disposed to part with a further small portion of their remaining interest to the public, at the rate of 3J, per share; and as beyond all doubt the company will shortly be in receipt of rapidly increasing funds fro m the sales of the ore, and as at the present moment there is a considerable balance in the hands of the company, the adventure is confidently offered to the public as one of great promise and advantage. All parties desiring an interest in this undertaking are at liberty to send their own agents to inspect the mines. The cost-book, with the rules of the company, can at any time be/napected, and every information obtained, and a plan of the mines, with specimens of the ore, can be seen on application to the secretary, 13, George-yard, Lombard-street.

WEST PHENIX MINE, in the parishes of LINKING-HORNE AND ST. CLEER, NEAR LISKEARD, CORNWALL.
Divided into 1024 shares.—Deposit £2 per share.

This invaluable mine adjoins the Pheenix, whose riches as a copper and tin mine have lately proved enormous. The lodes in the West Pheenix sett are parallel, and not far from the south and West Caradon Mines—the shares of the former originally cost £3, and now selling at £99; the latter £20, and now selling at £95. The two great cross-courses of South and West Caradon pass through this sett. The lode in West Pheenix sett is large, varies from 10 to 20 feet wide, strong and well defined, is the same lode as the Pheenix, and carries precisely the same indications. It is also ascertained that a rich course of ore now exists in the 13 fathom level, 14 inches wide, and worth from £90 to £100 per fathom. The small sum of £1150 has been paid for the sett, which will be reimburred.

reimbursed.

The accompanying reports, from Evan Hopkins, Esq., 13, Austinfriars, London, and Capt. Samuel Seccombe, agent of the Phenix Mine, demonstrate attisfactorily that this West Phonix Mine is no speculation, but only requires capital to develope the riches which are positively known to be in this sett. The ground being easy, the work will be rapidly accomplished. Five hundred and iffy shares are only now issued to the public—the remainder of the 1024 are reserved to the owners of the mine, agreeably to the conditions of the Cost-book. The calls will not exceed £1 per share every two months, and it is estimated that long before £7 or £8 per share is expended the mine will be in rich and profitable working. A 36-inch cylinder steam-engine has already been purchased. The mine will be lowered with the strictest economy, under the supprintendence of the best practical agents. A large number of the shares are already taken up.

of the best practical agents. A large number of the answess or surrounding the Application for the remaining shares may be made to James Lane, Eq., 40, Old Broadstreet, London; or to John Symon Higgs, Esq., 2, Chichester-place, Exeter.

OFFICES—14, HIGH-STREET. EXETER.

BANKERS—Messrs. Sanders and Co., Exeter; the Davon and Cornwall Banking Co., Exeter and Liskeard.

Exeter and Liskeard.

Report of Evan Heykins, Eq.

This sett is situate at the south-west foot of the Cheesewring, in the Caradon mining district. The lodes passing through this property are the continuation of the Phonix lodes westward: but as they leave the pale brown grantite rock of the east finals, and enter into the schortaceous granites of the Withybrook, they become more productive of tin than copper. The granite is here traversed by many soft channels of ground, and also by large veins of schorl rock, which are more or less impregnated with tin. The lodes in this set are intersected by the West Caradon cross-courses, and are of considerable magnitude, judging from the ancient superficial workings. Large quantities of rock, containing tin, may be extracted from this set at a moderate depth, and probably a large amount of the black and grey copper ore, also, probably to a considerable depth on the east side of the main cross-course. This mine should be worked in very wide excavations, as I this k the lode will be found in numerous branches; and a more economical mode of the dressing should be introduced, than the ordinary method employed in the county of Cornwall—by these means it may be rendered a very valuable property.

13, Austinfriars, London, June 28, 1830.

EVAN HOPKINS.

Report of Capt. Se

compliance with your request, I beg to furnish you with the following report of the Phoenix, or Withybrook, Mine, which is situate to the west of, and adjoins the its Mine—the strate of both mines is granite. The West Phenix, or Withybrook, sett, contains several known lodes; the greater part of them has been worked on, or less, for it, by the ancients; one in articular has been more strensively worked. some or less, for tin, by the ancients; one in particular has been more extensively worked on than the others, and which is a continuation of the principal lode in the Fhomix sett, and is precisely the same lode as the one proving so rich and productive for copper ore in that mine. It is a large strong lode, varying in size from 10 to upwards of 20 feet wide, and very regular in its dip or undersky, which is south. This lode has been laid open, and very extensively worked near your eastern boundary, to the depth of 40 fathoms, and in these workings yielded large returns of tin, which was found chiefly in the capels of the lode. The gossan part of the lode in these workings is large, and contains small portions of copper ore, and presenting good indications that the lode will, when laid open to a reasonable depth, be found to contain large deposits of copper ore, and at that shallow depth the lode was found to contain large quantities of rich tin, but could not be followed, having ro machinery to keep the workings drained. These old workings are now full of water and stuff, and cannot be examined until cleared up; but, judging from what can be seen of this lode in the Phenix sett, and their contiguity to each other, I am fully persuaded that if the West Phomix, or Withytrock, Mine he effectually laid open, it will prove to be a lasting and profitable mine, and one that will not require a very large amount of capital, if judiclously laid out.

Liakeard, August 31, 1850.

Report of John Chapman, Working Miner.

Liakeard, August 31, 1850.

Liakeard, August 31, 1850.

SAMUEL SECCOMBE.

Report of John Chapman, Working Miner.

I am a miner, and have been so all my days. I am now 80 years of age, and have always lived near the West Pheenix Mine. When I was young there was no steam-eszines: and what is more, there is no waier to drive a wheel near the West Pheenix Mine.

The old men werked the mine down to the 13 fathom level by a horse engine, changing the horses every half-beaut, by day and by night. At least the water came too strong for them, and they were obliged to abandon the mine. It was often tried after this, but the horse overy half-beaut, by day and by night. At least the water tame too strong for them, and they were obliged to abandon the mine. It was often tried after this, but the never of the first the water. All the miners in the parish are ware that there is a solid course of tin in the bottom of the mine, I sended the wave that there is a solid course of the in olden times copper was not looked after. It is the Pheenix lode you have in your sett, but in olden times copper was not looked after. It is the Pheenix lode you have in your sett, and my opinion is, you will have as good a mine for rich copper as the Phenix. There is no difference in the nature of the lodes, they are the asame. The Phonix lode carries tin on the backs of the copper.

Luking Gurne, Sept. 10, 1850.

Spon the Cost-book Principle, and under the management of Capt. Williams of Reducth.

The first call to be £10, in two instalments, at one and four months respectively. It is enough to state that this highly promising and extensive SETT is situate in and around the town of Reducth, close to the following presperous and dividend-paying mines—viz.: Carn Bres, South Rasset, North Basset, and Wheal Buller, and in the immediate vicinity of others of known value and productiveness. The whole of the setts have been secured for twenty-one years, unexpired, from the respective lords and the bounders, at a reduced scale of dues, and a large majority of the shares have been ready appropriated.

The following report (annexed) is from the only surveying agent at the last working:

PEDNANDREAMINE.

Levant Mine, St. Just, March 8, 1850.

PED NAND REA MINE.

Lecand Mine, St. Just, March 8, 1850.

Draa Sin.—In answer to your letter to me requesting a Sport upon the above mine, I beg to inform you, that I am the only surviving captain who managed this mine at its last working, and that I canalidar the speculation a Sair one, if worked according to my views—vis., that an 30-inch cylinder engine, should be at once placed in the present engine-house, and fork the water to the 80 fm. level, under the add; the entire depth of the mine being 90 fms. under the add; and the addit being about 20 fms. from the surface), the levels should be then driven cast. There is now in the 39 fm. level and, which is about 80 fms. cast of the engine-shaft, at in lode, about 2 feet wide, worth from £10 to £12 per fm., and was so left when the mine ceased to work. About the 60 fm. level there is a splendid lode of tin, which was let at half tribute, whilst the materials on the mine were drawing, and from which four men, whe went down and never returned during three days, realized a proit on their proportion of the tin they brought to the surface, of £18 per man; and if this lode continues, there can be no doubt that this alone will give a handsome profit to the adventurers. This is my report, and I shall be at all times ready to furnish you with any information you may require.

The remaining shares will be at once appropriated to the earliest respectable applicants.

The remaining shares will be at once appropriated to the earliest respectable applicant and as the first general meeting of shareholders is advertised for Thursday, the 31st iest Andrew's Hotel, Redrubt, at ax P. M., immediately after the ticketing for copper ore, early application is necessary to be made to the Provisional committee, at Bank-hous Redruth; or T. R. Hearle, Esq., purser of the mine, Green-lane, Redruth. Application for particulars can be made in London to Mr. Evan Hopkins, C.E., 13, Austinitiars. Dated Oct. 9, 1850.

WHEAL OAK TIN AND COPPER MINE.

Held under leases for 21 years, nearly 20 of which are unexpired, at 1-18th dues.

Divided in 1080 shares, conducted on the Cost-book System, under the superintendence of a Finance Committee.

Mr. S. BROUGHAM, Falmouth, Chairman.
Mr. PARRY, Hayle.
Mr. JOHN JENKIN, Wendron.
Mr. JOHN TRETHOWAN, Little Falmouth, Purser.

Mr. JOHN JERNIN, Wendron.

Mr. JOHN TRETHOWAN, Little Falmouth, Parser.

Messr. TWEEDY & Co., Bankers, Falmouth.

In offering shares in this mine to the public, the proprietors beg it may be distinctly understood it is not for the purpose of jobbing, but in order to work the mine effectually, which has hitherto been impracticable, from the fact of several of the old adventurers being unable to pay their proportion of cost; it has consequently fallen heavily on those who can do so, and who are fully prepared to continue their present interest. From these circumstances, very little has been done for the last 12 months, and several persons in the neighbourhood have been anxionsly expecting the sett would be abandoned, when they had prepared to secure it for themselves. In this, however, they will find themselves disapointed—an arrangement having been made with the defaulters; and the purser is now in a position to offer to the mining world ONE-HALF of the MINE, at 25s. per 1090 share—ALL CALLS and LIABILITIES PAID. In fact, to form a new Company, in which 500 shares are held by the present proprietors.

The engine-shaft is sunk on the lode 42 fathoms from surface, and from the different levels at this point more than £800 worth of tin have been returned. The bottom, or 34 fathom level, has been driven 40 fathoms east, from whence about £30 worth of copper ore have been sold; the lode in this end is now from 2 to 3 feet wide, with most favourable indications, being composed of mundic, spar, and yellow ore; in short, on approaching the granite (which cannot be more than 10 fathoms), the lode is regularly improving, and it cannot be considered too sanguins to expect, from present appearances, a good and lasting lode at the junction of killies and granite. This lode underlies north about 2 feet in a fathom; and in a cross-curt, driven about 6 fathoms north, at this level, a branch of rich copper has been intersected, with a small dip towards the great lode, from which, when cut, will enable us to communicate with the

on its course, communicate with the engine-shaft, and thus unwater the mine under the present workings. Between the north and south boundaries eight lodes are known to exist, some of which have been highly productive, particularly those of Wheal Trumpet, Wheal Ann, Wheal Whidden, Trovenen, and Trenethick Wood Mines. The whole of the lodes in the two latter mines run through Wheal Oak, and were worked with immense profits to our extreme eastern boundaries, leaving a rich lode of copper in the ends, which the adventurers could not follow, in consequence of the proprietor of the freshold of Trenethick Estate (the whole of which is now granted to Wheal Oak) refusing to grant under any electrometrics.

Estate (the whole of which as how grantes to which characteristics.

There are other points to which attention will be directed at the first meeting of the new company, too numerous for the limits of the present prospectus, either of which will be found worthy of notice.

Wheal Oak has been opened to the present depth and levels by aid of a water-wheel, is feet in diameter, and 3 feet of inches in breast, which power is deemed sufficient to sink at least 40 atthoms deeper.

The total outlay has been nearly £4500; still, in order that the mine may be fully, effectually, and properly worked, it has been determined to offer the interest already named at a merely nominal value. Immediately the allotment of shares shall have been made, a General Meeting of the adventurers will be convened, of which due notice will be given.

e given. Early applications for shares may be addressed to the purser, Mr. Trethowan, Little almouth, Flushing, near Falmouth, Cornwall; Mr. Williams, accountant and mine tine broker, Green Bank-terrace, Falmouth; or to Mr. W. Fenton, 5, White Hart-court, ombard-street, London.

MPORTANT DISCOVERY OF SILVER LEAD MINES

IMPORTANT DISCOVERY OF SILVER LEAD MINES, near BRISTOL.—The attention of persons interested in MINING PROPERTY is particularly directed to these valuable SILVER-LEAD MINES, recently discovered, and proved at considerable expense. It is proposed to FORM a COMPANY to WORK these MINES, to be called the ITCHINGTON HILL SILVER-LEAD MINING COMPANY, to be conducted on the Cost-book Principle, which, by Act of Parliament, exempts share-holders from any liability beyond the amount subscribed on their shares.

The sett, or grant, comprises about 80 acres, and is held direct from the Lord of the Manor, at 1-20th dues, or 5 per cent. on the produce, for a period of 21 years, from June, 1830. The situation is highly advantageous, being only 10 miles from Bristol, four from the Wickwar Station, on the Blimingham and Bristol Railway, and within 6 of the River Severn. Saveral very valuable lodes have been discovered, three of which have been explored to some extent, showing throughout indications of a highly metalliferous quality, which the reports will fully explain, and samples seen at the Company's offices. From the peculiar situation of the lodes, and the natural character of the district, it is considered that expensive machinery will be unnecessary. A considerable sum of money has been expended on the only required speculative outley, the lead being actually discovered. Gossan, fluor-spar, sulphuret of barytes, and other indications of there being a largely productive mine, have been found, fully justifying the shareholders in anticipating a return on the capital invested, equal to the most valuable mine now working.

The mine is to be divided into 3072 shares; 2272 of these will be issued to the public, on which £3 per share is to be paid on signing the Coxt-book; this sum the proprietors are fully assured will carry on the works effectually.

Various assays have been made, and the ore is found to be exceedingly rich in aliver; one by Mr. Clements, of the Panther Lead-Works, Bristol, produced 50¢ per cent. of lead, and

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